

20021223.qrp v02_n778.qrl.20021223

Date: Mon, 23 Dec 2002 19:03:12 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2778

QRP-L Digest 2778

Topics covered in this issue include:

- 1) [142904] OT: Need Copy of Zone Alarm File
by "Pat Whelton" <pwhelton@earthlink.net>
- 2) [142905] Nao JA6PA
by "Ron Polityka" <wb3aal@fast.net>
- 3) [142906] Re: OT Capacitor Replace - most of what you want to know
by Gary Halpern <gary.halpern@sympatico.ca>
- 4) [142907] Re: FOX: K3ESE Log 1.0
by Macstein@aol.com
- 5) [142908] Re: OT: CD-RW Help
by Fran Flynn <fflynn@adelphia.net>
- 6) [142909] Re: Auttek WM-1 Help
by "John McClain" <digi2@earthlink.net>
- 7) [142910] Re: OT - Capacitor Replacement - Computer Motherboard
by Tim Groat <tcgroat@earthlink.net>
- 8) [142911] RE: Destroying CD-R Discs
by Karl Kanalz <kkanalz@gcecispc.com>
- 9) [142912] Propagation software
by Vince Santis <vsantis@earthlink.net>
- 10) [142913] Propagation software
by Vince Santis <vsantis@earthlink.net>
- 11) [142914] Re: Destroying CD-R Discs
by "John J. McDonough" <wb8rcr@arrl.net>
- 12) [142915] Re: Propagation software
by <sjolin@swbell.net>
- 13) [142916] Re: Destroying CD-R Discs
by Dave Hottell <hottell@gulftel.com>
- 14) [142917] Re: Propagation software
by Bob Nielsen <nielsen@oz.net>
- 15) [142918] Re: Destroying CD-R Discs
by "Mike Yetsko" <myetsko@insydesw.com>
- 16) [142919] OT: Need Copy of Zone Alarm File (Cease & Desist)
by "Pat Whelton" <pwhelton@earthlink.net>
- 17) [142920] Re: Destroying CD-R Discs
by Jim Campbell <jim-c@charter.net>
- 18) [142921] Re: FOX: K3ESE Log 1.0
by "Mike L. AF4LQ" <olyellr@iglou.com>
- 19) [142922] Re: Class E

- by "Chris Trask" <chistrask@earthlink.net>
- 20) [142923] Re: Switching Amplifiers (Classes D, E, F, S etc.)
by "Chris Trask" <chistrask@earthlink.net>
- 21) [142924] Re: Need Copy of Zone Alarm File (Cease & Desist)
by "George, W5YR" <w5yr@att.net>
- 22) [142925] Neat QRP Tube Kit!
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 23) [142926] Re: This list is falling apart
by "Ben Pfeiffer" <bpfeiffer@tusco.net>
- 24) [142927] Re: Neat QRP Tube Kit!
by "Bill, N4QA" <n4qa@hotmail.com>
- 25) [142928] Re: Neat QRP Tube Kit!
by "George, W5YR" <w5yr@att.net>
- 26) [142929] Re: Destroying CD-R Discs
by Mike Czuhajewski <wa8mcq@comcast.net>
- 27) [142930] W1CG Balun - some pictures...
by Jim Thiessen <jthiessen@videotron.ca>
- 28) [142931] Solder Sucker Idea
by "Dennis Payton" <dpayton@fwi.com>
- 29) [142932] Re: HB: Toroid Calculator update
by Mike Czuhajewski <wa8mcq@comcast.net>
- 30) [142933] OT: Fun with Microwave Ovens was:Destroying CD-R Discs
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 31) [142934] Re: W1CG Balun - some pictures...
by "Joe Martin" <km5cw@arrl.net>
- 32) [142935] Re: Fun with Microwave Ovens was:Destroying CD-R Discs
by "Joe Martin" <km5cw@arrl.net>
- 33) [142936] RE: OT Windows XP HELP
by "Dave Fifield" <dave@redhotradio.com>
- 34) [142937] Wash. Post news article
by "William K. Harding" <k4ahk@ix.netcom.com>
- 35) [142938] RE: Destroying CD-R Discs
by Karl Kanalz <kkanalz@gcecisp.com>
- 36) [142939] Re: Autek WM-1 Help
by "carl seyersdahl" <carlseye@tampabay.rr.com>
- 37) [142940] RE: Writing on CD-ROMs
by Karl Kanalz <kkanalz@gcecisp.com>
- 38) [142941] Re: Destroying CD-R Discs
by "Mike Yetsko" <myetsko@insydesw.com>
- 39) [142942] Re: Fun with Microwave Ovens was:Destroying CD-R Discs
by "Mike Yetsko" <myetsko@insydesw.com>
- 40) [142943] Re: Neat QRP Tube Kit!
by "Bill, N4QA" <n4qa@hotmail.com>
- 41) [142944] Class E
by "Karl F. Larsen" <k5di@zianet.com>
- 42) [142945] FS - LDG QRP Tuner
by Kfivebg@aol.com
- 43) [142946] Re: 23 dB gain - Class E and Norcal 40A articles series

by "Karl F. Larsen" <k5di@zianet.com>
44) [142947] Re: Destroying CD-R Discs
by "John J. McDonough" <wb8rcr@arrl.net>
45) [142948] Re: This list is falling apart
by W2AGN <w2agn@w2agn.net>
46) [142949] Shielding materials
by <tlogan7@cox.net>
47) [142950] Re: Destroying CD-R Discs
by Bruce Grubbs <mail@brucegrubbs.com>
48) [142951] Re: Class E
by "Chris Trask" <chistrask@earthlink.net>
49) [142952] Fox - Winter Fox Hunt Teams Results.
by Bruce Rattray <rattray@gpfn.sk.ca>
50) [142953] Propagation software
by Vince Santis <vsantis@earthlink.net>
51) [142954] F/S J-38 Key
by "Francis Callahan" <colcal@srv.net>
52) [142955] Re: Class E
by W2AGN <w2agn@w2agn.net>
53) [142956] Re: Need Copy of Zone Alarm File (Cease & Desist)
by KD5NWA <KD5NWA@cbayona.com>
54) [142957] where do i get Conductive Paint for RF shielding?
by "Terres Family" <terresfm@ncia.net>
55) [142958] Fox - Winter Fox Hunt Teams Results.
by Bruce Rattray <rattray@gpfn.sk.ca>
56) [142959] Unsubscribe to computer list
by KD5NWA <KD5NWA@cbayona.com>
57) [142960] Re: Propagation software
by "Joe Martin" <km5cw@arrl.net>
58) [142961] Re: Unsubscribe to computer list
by W2AGN <w2agn@w2agn.net>
59) [142962] 4J6ZZ 28010 !!!
by "George Osier" <gosier@twcny.rr.com>
60) [142963] Re: OT Windows XP HELP
by "Rich Wilkerson" <richqrp@cox.net>
61) [142964] Re: Unsubscribe to computer list
by KD5NWA <KD5NWA@cbayona.com>
62) [142965] Re: This list is falling apart
by William R Colbert <w5xe@juno.com>
63) [142966] Rascal interface for sale. \$49.95 with shipping.
by "Jess Gypin" <jessmx5@earthlink.net>
64) [142967] Re: Unsubscribe to computer list
by "Jess Gypin" <jessmx5@earthlink.net>
65) [142968] Re: Class E
by "Karl F. Larsen" <k5di@zianet.com>
66) [142969] Re: This list is falling apart
by W2AGN <w2agn@w2agn.net>
67) [142970] Radios & computers....don't mean to fan any flames, but...

- by "Bill, N4QA" <n4qa@hotmail.com>
- 68) [142971] Re: Class E
by "Chris Trask" <chistrask@earthlink.net>
- 69) [142972] Re: where do i get Conductive Paint for RF shielding?
by "Mike Yetsko" <myetsko@insydesw.com>
- 70) [142973] Welcome to the Amateur Century (article from the Financial Times)
by "Marty N5NW" <n5nw@n5nw.org>
- 71) [142974] RE: This list is falling apart
by "Glenn Butzlaff" <gbutzlaff@wi.rr.com>
- 72) [142975] Re: HB: Toroid Calculator update
by "Bill Jones" <kd7s@psnw.com>
- 73) [142976] OT & List"Drift"
by "Rod N0RC" <rod@n0rc.us>
- 74) [142977] Fw: where do i get Conductive Paint for RF shielding?
by "Jerry Ford" <benlightnd13@mchsi.com>
- 75) [142978] Re: OT
by William R Colbert <w5xe@juno.com>
- 76) [142979] A tendency toward "knowitallism"
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 77) [142980] Re: A tendency toward "knowitallism"
by "Dennis W. Farrell" <dfarrell@ridgecrest.ca.us>
- 78) [142981] Re: where do i get Conductive Paint for RF shielding?
by "Bob and Janet" <jbcraft@adelphia.net>
- 79) [142982] Fox - Winter Fox Hunt Teams Results.
by Bruce Rattray <rattray@gpfn.sk.ca>
- 80) [142983] Re: OT & List"Drift"
by Pete Burbank <plburbank@earthlink.net>
- 81) [142984] HEY! What's that burnt odor coming from my favorite DSW ? (long)
by "Bill, N4QA" <n4qa@hotmail.com>
- 82) [142985] Re: OT & List"Drift"
by "John J. McDonough" <wb8rcr@arrl.net>
- 83) [142986] Re: W1CG Balun - some pictures...
by "George Heron N2APB" <n2apb@erols.com>
- 84) [142987] RE:Prepositions
by Karl Kanalz <kkanalz@gceecisp.com>
- 85) [142988] RE: Class A, B and C "References"
by Karl Kanalz <kkanalz@gceecisp.com>
- 86) [142989] Understanding CD-R and CD-RW
by "Bill Jones" <kd7s@psnw.com>
- 87) [142990] Re: HEY! What's that burnt odor coming from my favorite DSW ? (long)
by "John McClain" <digi2@earthlink.net>
- 88) [142991] RE: Conductive Paint for RF shielding?
by Karl Kanalz <kkanalz@gceecisp.com>
- 89) [142992] RE:Prepositions
by "George, W5YR" <w5yr@att.net>
- 90) [142993] Class E amplifiers.
by KD5NWA <KD5NWA@cbayona.com>
- 91) [142994] Source of Teflon Coated wire for builders

by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
92) [142995] RE:Prepositions
by Lloyd Lachow <llachow@yahoo.com>
93) [142996] Fw: Neat QRP Tube Kit!
by "KB0VCC" <kb0vcc@adelphia.net>
94) [142997] Re: A tendency toward "knowitallism"
by "Frank King" <fking@oregonvos.net>
95) [142998] RE: Full Moon and Fangs
by Karl Kanalz <kkanalz@gcecispc.com>
96) [142999] RockMite Happy Dance
by n5ib@juno.com
97) [143000] RE: Class A, B and C "References"
by KD5NWA <KD5NWA@cbayona.com>
98) [143001] RFI from PC's
by "James Reid" <jreid4@earthlink.net>
99) [143002] Fox - Winter Fox Hunt Teams Results.
by Bruce Rattray <rattray@gpfn.sk.ca>
100) [143003] MFJ CW keyer and paddle FS
by "Ken Simpson, W8EK" <W8EK@fdt.net>
101) [143004] Re: Class A, B and C "References"
by "Chris Trask" <chistrask@earthlink.net>
102) [143005] On being Politically INcorrect.
by Ted Kell <tedkell@ev1.net>
103) [143006] Re: On being Politically INcorrect.
by "Mike Yetsko" <myetsko@insydesw.com>
104) [143007] Antenna book to trade
by Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
105) [143008] Re: On being Politically INcorrect.
by Ed Tanton <n4xy@earthlink.net>
106) [143009] Re: Wash. Post news article
by Mike Czuhajewski <wa8mcq@comcast.net>
107) [143010] Class E amp simulation
by "Leon Heller" <leon_heller@hotmail.com>
108) [143011] Re: On being Politically INcorrect.
by Ed Tanton <n4xy@earthlink.net>
109) [143012] Re: Now Showing - The ARS Sojourner
by "Joe Martin" <km5cw@arrl.net>
110) [143013] Re: Class E amplifiers.
by "Leon Heller" <leon_heller@hotmail.com>
111) [143014] Re: Class A, B and C "References"
by "Russ Hines" <wb8zcc@one.net>
112) [143015] Re: Class A, B and C "References"
by KD5NWA <KD5NWA@cbayona.com>
113) [143016] Amplifiers - driver stage design
by "Ian Wilson" <ianmwilson@earthlink.net>
114) [143017] Re: Conductive Paint for RF shielding?
by "John McClain" <digi2@earthlink.net>
115) [143018] Re: Prepositions

by Rick McKee <kc8aon@juno.com>
116) [143019] Re: Full Moon and Fangs
by "John McClain" <digi2@earthlink.net>
117) [143020] Re: On being Politically INcorrect.
by "Bob Tellefsen" <n6wg@earthlink.net>
118) [143021] Re: Class A, B and C "References"
by "Chris Trask" <chistrask@earthlink.net>

Date: Sun, 22 Dec 2002 18:01:59 -0600
From: "Pat Whelton" <pwhelton@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142904] OT: Need Copy of Zone Alarm File
Message-ID: <001401c2aa16\$84465740\$8901a8c0@Earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone have a copy of VSDATA95.VXD they can attach to an email and send to me? I recently upgraded from a dial-up line to high speed cable access. With the "always on" connection I set up Zone Alarm as my firewall. I wanted to go one step further as far as a firewall and installed a Linksys router. The router has a built-in firewall and I no longer had a need for Zone Alarm. Unfortunately Zone Alarm doesn't clean up after itself properly when it un-installs and now every time I boot the system the process stops and tells me I am missing VSDATA95.VXD. This file is a part of Zone Alarm. I could re-install Zone Alarm and copy the needed file to a safe folder then uninstall it again but I would rather not because of the router firewall. >From what I have read based on Google searches it looks like all I have to do is place a copy of VSDATA95.VXD in my Windows/System directory.

Any other suggestions will be entertained. Sorry for the bandwidth.

Pat - KZ5J

Date: Sun, 22 Dec 2002 19:09:17 -0500
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>
Subject: [142905] Nao JA6PA
Message-ID: <001301c2aa17\$892b9620\$03645cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Again,

Just to let you know I talked to Nao back on Oct. 10, 2002.

I received a direct QSL from him 7 days later.

72 & Good DX
Ron de WB3AAL
wb3aal@fast.net
www.n3epa.org

Date: Sun, 22 Dec 2002 19:10:52 -0500
From: Gary Halpern <gary.halpern@sympatico.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [142906] Re: OT Capacitor Replace - most of what you want to know
Message-ID: <3E06548C.A328F32D@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Attached is the link where the capacitor saga is described. Names,
dates, companies, etx.

<http://www.niccomp.com/taiwanlowesr.htm>

Gary
VA3GH

Date: Sun, 22 Dec 2002 19:53:32 EST
From: Macstein@aol.com
To: qrp-l@lehigh.edu
Subject: [142907] Re: FOX: K3ESE Log 1.0
Message-ID: <e.2a4e0c76.2b37b88c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Paul K4FB in FL wrote:

>>Ask the AF4 gang,

Mike AF4LQ in KY wrote:

>Hey, I like that!

>

>73, Mike

>af4lq Merry Christmas to all es GB.

Paul's point is a good one. Mike and Chuck AF4PP in GA fool me ALL the time!

-MAC-

AF4PS

Date: Sun, 22 Dec 2002 20:02:49 -0500
From: Fran Flynn <fflynn@adelphia.net>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [142908] Re: OT: CD-RW Help
Message-ID: <3E0660B9.2070603@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

CD-RW has a lower reflectance than CD rom or CD-R. It requires a drive which is capable of "multi session". A multi session drive can deal with the lower reflectance of the CD-RW phase change media. If the drive is more than about 3 years old, it's not multi session.

To make this work, make sure your CD-RW is finalized after being written to, if you still can't read it, then your laptop may not have a recent enough CD drive in it, not multi session. Then try CD-R's, if no sucess, try different CD-R media, failing that, perhaps a new CD-R drive for your desktop. What you are seeing is a typical compatibility issue with CD's.

I've given up on trying to use CD-RW since CD-R's are about the same price as a postage stamp and have fewer compatibility problems, besides, I can write them at 40x. If you're worried about security, just scratch the top of the CD-R disk with a screwdriver before you toss it out.

Fran Km1z

> Help! I have a CD-RW drive that I have no trouble writing or reading CDs
> with on my desktop machine. However when I insert these in my IBM thinkpad
> laptop, the CD can not be read unless recorded in CD-R format, not CD-RW.

Date: Sun, 22 Dec 2002 18:04:14 -0700
From: "John McClain" <digi2@earthlink.net>
To: <k6whp@verizon.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [142909] Re: Autek WM-1 Help
Message-ID: <004001c2aa1f\$365d0890\$6601a8c0@laptop2>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Bill,

I have been looking for a SWR/PWR meter that has a remote sensor head that I can make duplicates of and the WM-1 sounds like it might be the one I want. Does the sensor use standard parts that I will be able to find or make on my own? My intention is to have 1 meter with several switchable sensors (one for each rig).

John
K7SVV
k7svv@arrl.net
K1 #1378, K2 #2569, SST 20, Rock Mite 20, Rock Mite 40, Nor'Easter

----- Original Message -----
From: "William Phinizy" <k6whp@verizon.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, December 22, 2002 11:25 AM
Subject: Re: Autek WM-1 Help

> My sincere thanks to all those who replied. This is one whale of a
list. I
> received many offers of manual copies, one e-mailed a .jpg of the
manual
> pages to me and another fine gentleman faxed a copy to me. I am
sincerely
> grateful.
>

> By the way, the eHam.net reviews had some negative comments about the unit,
> but *all* responses from this list were positive. Turns out that the device
> is accurate and well built. I personally did not find any construction
> problems with mine and, having diddled with the internal pots, had to go
> through the calibration process again.
>
> The meters are a bit pricey new: \$150 MSRP. Although, they are definitely
> competitive with such as the Mirage MP-1. It has dual meters, they are large
> (no squinting from the operating position to see what your power is), and
> are NOT CROSSED (personal prejudice). If you happen by a unit at a swap meet
> and can pick it up for a good price, then you won't be disappointed. If the
> manual is missing, it is available from Autek for \$3 and is only 5 8x11
> pages. I and others on this list will be more than happy to send/fax/email
> you a copy.
>
> Words of caution: Autek does NOT include the schematic of the main unit with
> the manual nor will they provide it for proprietary reasons. They do provide
> a schematic of the control head, however. Also, be advised that if you do
> not receive the original wall wart to power one, be double-extra-careful in
> substituting your own power source. I was warned by many respondents theirs
> was a negative center device. Many units were but it wasn't always the case.
> Don Foster, K5KW, said it best (reprinted without permission):
>

Date: Sun, 22 Dec 2002 18:28:47 -0700
From: Tim Groat <tcgroat@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [142910] Re: OT - Capacitor Replacement - Computer Motherboard

Message-ID: <5.1.1.6.2.20021222180512.009fadb0@mail.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

The key thing is who made the caps, and what production dates are affected. I'd feel pretty safe with the major Japanese suppliers, namely United Chemi-Con and Matsushita (Panasonic), provided the parts were made in *their own* plants in Japan. Smaller manufacturers are a question mark--you'll have to figure out where the material really comes from. Some really do make their own parts, others are only resellers of imported parts. Caveat emptor!

I suspect these caps will be around in surplus channels for some time to come. Manufacturers and distributors are aware of the problem and are refusing to accept the suspect parts, so a lot of material may be heading for the "distressed merchandise" market.

BTW #1, the main problem is an inferior electrolyte solution. Another cost shaving change gone bad.

BTW #2, beware of getting these same defective caps in your "silver box" PC power supply.

72/73,

--Tim (KR0U)

>"Mike Yetzko" <myetzko@insydesw.com>:

>Thing is, there were caps on motherboards that showed the problem,

>but there were millions of parts in 'pipelines' mixed with good parts

>and no way to really tell them apart easily.

>

>I'm not sure that the pipeline would be clean now. I'm not sure even

>when I'd feel comfortable it WOULD be clean.

Date: Sun, 22 Dec 2002 19:47:33 -0600

From: Karl Kanalz <kkanalz@gceecisp.com>

To: "'fflynn@adelphia.net'" <fflynn@adelphia.net>,

Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [142911] RE: Destroying CD-R Discs

Message-ID: <01C2A9F3.2D05D820@KKANALZ>

Actually, Fran, you want to scratch the BOTTOM of the CD disc (with a screwdriver or other destroying device) before discarding to the scrap heap (almost all CD's are "inserted" recorded side down).

I pay about 14-cents each for CD-R blanks (on a spindle of 100) and they work just fine in my "oldish" H-P CD-R/R-W drive and I can use them on my brand-new "Dude" computer as well as play music disks in my truck's CD player.

Framistan (You can call me "Fram") K - W8TIF
McKinney, Texas

-----Original Message-----

From: Fran Flynn [SMTP:fflynn@adelphia.net]
Sent: Sunday, December 22, 2002 7:03 PM
To: Low Power Amateur Radio Discussion
Subject: Re: OT: CD-RW Help

CD-RW has a lower reflectance than CD rom or CD-R. It requires a drive which is capable of "multi session". A multi session drive can deal with the lower reflectance of the CD-RW phase change media. If the drive is more than about 3 years old, it's not multi session.

To make this work, make sure your CD-RW is finalized after being written to, if you still can't read it, then your laptop may not have a recent enough CD drive in it, not multi session. Then try CD-R's, if no success, try different CD-R media, failing that, perhaps a new CD-R drive for your desktop. What you are seeing is a typical compatibility issue with CD's.

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Fran Km1z

> Help! I have a CD-RW drive that I have no trouble writing or reading CDs
> with on my desktop machine. However when I insert these in my IBM
thinkpad
> laptop, the CD can not be read unless recorded in CD-R format, not CD-RW.

Date: Sun, 22 Dec 2002 20:49:30 -0500
From: Vince Santis <vsantis@earthlink.net>
To: "QRP List (E-mail)" <qrp-l@lehigh.edu>
Cc: "Tentec (E-mail)" <tentec@contesting.com>
Subject: [142912] Propagation software
Message-ID: <01C2A9FC.716CBE80.vsan@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi,

A while back I downloaded and used a propagation prediction freeware program.

Vince Santis,N1VS
Winsted, CT
NEQRP # 598
PRP-L # 2372
FISTS# 8053
CC # 1161
K1 #841

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.431 / Virus Database: 242 - Release Date: 12/17/02

Date: Sun, 22 Dec 2002 20:54:48 -0500
From: Vince Santis <vsantis@earthlink.net>
To: "QRP List (E-mail)" <qrp-l@lehigh.edu>
Cc: "Tentec (E-mail)" <tentec@contesting.com>
Subject: [142913] Propagation software
Message-ID: <01C2A9FC.79A4EE60.vsan@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi,

A while back I downloaded and used a freeware propagation prediction program. After doing some maintenance on my hard drive I no longer have it. Can some one direct me to the site for the program. I've searched Google, eham and QRZ with no success.

Thanks,

Vince Santis, N1VS
Winsted, CT
NEQRP # 598
PRP-L # 2372
FISTS# 8053
CC # 1161
K1 #841

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.431 / Virus Database: 242 - Release Date: 12/17/02

Date: Sun, 22 Dec 2002 20:52:06 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142914] Re: Destroying CD-R Discs
Message-ID: <002501c2aa25\$e6d31420\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Fran had it right, actually.

The CD is read from the bottom, but the recorded layer is just below the label. Scratching the top will destroy the recording. Scratching the bottom will just make the recording hard to read. In fact, the polycarb on the bottom is quite durable, the top relatively fragile. If you were really paranoid, you could picture someone polishing the scratch out of the bottom, but if the dye layer is destroyed, there's no recovering it.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Karl Kanalz" <kkanalz@gcecispc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, December 22, 2002 8:47 PM
Subject: RE: Destroying CD-R Discs

> Actually, Fran, you want to scratch the BOTTOM of the CD disc (with a

Date: Sun, 22 Dec 2002 19:59:32 -0600
From: <sjolin@swbell.net>
To: <vsantis@earthlink.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [142915] Re: Propagation software
Message-ID: <0dc501c2aa26\$efb10470\$78d1fea9@DaveSjolin>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Do a google search for W6EL Prop

73 de Dave, N0IT

----- Original Message -----
From: "Vince Santis" <vsantis@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, December 22, 2002 7:54 PM
Subject: Propagation software

> Hi,
> A while back I downloaded and used a freeware propagation prediction
> program. After doing some maintenance on my hard drive I no longer have it.
> Can some one direct me to the site for the program. I've searched Google,
> eham and QRZ with no success.

>
> Thanks,
>
> Vince Santis, N1VS
> Winsted, CT
> NEQRP # 598
> PRP-L # 2372
> FISTS# 8053
> CC # 1161
> K1 #841

>
>
> ---

> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (<http://www.grisoft.com>).
> Version: 6.0.431 / Virus Database: 242 - Release Date: 12/17/02
>
>

Date: Sun, 22 Dec 2002 20:28:41 -0600
From: Dave Hottell <hottell@gulftel.com>
To: wb8rcr@arrl.net,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [142916] Re: Destroying CD-R Discs
Message-ID: <3.0.6.32.20021222202841.00d7eb70@pop.gulftel.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

This thread brings up a question I have had for a while. Has anyone ever experienced a CDR that was unreadable due to writing on the label with an ink that penetrated through the label and into the dye layer? I have heard this is possible, but have never actually read where it happened to anyone.

Does anyone think this is possible, or just a bunch of hooey.

73 es Merry Christmas to everyone!
Dave
AB9CA

At 08:52 PM 12/22/02 -0500, John J. McDonough wrote:

>Fran had it right, actually.

>

>The CD is read from the bottom, but the recorded layer is just below the
>label. Scratching the top will destroy the recording. Scratching the
>bottom will just make the recording hard to read. In fact, the polycarb on
>the bottom is quite durable, the top relatively fragile. If you were really
>paranoid, you could picture someone polishing the scratch out of the bottom,
>but if the dye layer is destroyed, there's no recovering it.

>

>72/73 de WB8RCR <http://www.qsl.net/wb8rcr>

Date: Sun, 22 Dec 2002 18:28:31 -0800
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [142917] Re: Propagation software
Message-ID: <20021223022831.GA15339@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

<http://www.qsl.net/w6elprop>

On Sun, Dec 22, 2002 at 08:54:48PM -0500, Vince Santis wrote:

> Hi,
> A while back I downloaded and used a freeware propagation prediction
> program. After doing some maintenance on my hard drive I no longer have it.
> Can some one direct me to the site for the program. I've searched Google,
> eham and QRZ with no success.
>
> Thanks,
>
> Vince Santis, N1VS
> Winsted, CT
> NEQRP # 598
> PRP-L # 2372
> FISTS# 8053
> CC # 1161
> K1 #841
>

--

Bob Nielsen, N7XY
Bainbridge Island, WA
IOTA NA-065, USI WA-028S

n7xy@n7xy.net

Date: Sun, 22 Dec 2002 21:33:32 -0500
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <wb8rcr@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142918] Re: Destroying CD-R Discs
Message-ID: <004101c2aa2b\$c6864880\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If you're that paranoid, just snap them in half....

Date: Sun, 22 Dec 2002 20:38:00 -0600
From: "Pat Whelton" <pwhelton@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142919] OT: Need Copy of Zone Alarm File (Cease & Desist)
Message-ID: <00a801c2aa2c\$50191820\$8901a8c0@Earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK. I'm a believer. Thanks for the help. I'm getting inundated with files. I tried the first one I received and it didn't work. Like to never got the system back up. Went into safe mode and finally got this thing up. I'm never going to shut it down again. Zone Alarm's ears should be burning by now.

By the way I received VSDATA95.VXD files of varying sizes (99.7, 138, 143 and 146). I'm guessing these are from different releases of Zone Alarm.

I've also got the instructions for removing all traces of this thing from the register. Problem is I don't want to mess with my register. Some one even sent a register editor. Funny thing is I found the instructions in a "temporary Internet files" folder. Good thing they didn't get deleted. I guess I had browsed the site earlier this week.

Bottom line. I'm shelled shocked right now and don't want to screw with it any more. Zone Alarm ought to be shot for putting out software that you can't un-install.

Thanks to all that helped.

Pat - KZ5J

Date: Sun, 22 Dec 2002 21:58:09 -0500
From: Jim Campbell <jim-c@charter.net>
To: hottell@gulftel.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [142920] Re: Destroying CD-R Discs
Message-ID: <3E067BC1.5010703@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

Dave,

I have rendered a CDR unusable by simply writing on the topside label with a ballpoint pen.

My guess is that doing so deforms the recording surface to the extent that it is unusable. I use a felt-tip marker like a Sharpie to label my CDRs.

72/73

Jim
W4BQP

Dave Hottell wrote:

>Gang,
>
>This thread brings up a question I have had for a while. Has anyone ever
>experienced a CDR that was unreadable due to writing on the label with an
>ink that penetrated through the label and into the dye layer? I have heard
>this is possible, but have never actually read where it happened to anyone.
>
>Does anyone think this is possible, or just a bunch of hooley.
>
>
>

Date: Sun, 22 Dec 2002 22:09:08 -0500
From: "Mike L. AF4LQ" <olyellr@iglou.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [142921] Re: FOX: K3ESE Log 1.0
Message-ID: <5.1.0.14.1.20021222215332.01d18730@mail.iglou.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 07:53 PM 12/22/02, Macstein@aol.com wrote:

>Paul's point is a good one. Mike and Chuck AF4PP in GA fool me ALL the time!

Yep, same here, Mac. Been ready to send a FOX exchange more than once but

then hear a "PS" or "PP" suffix. You rascals. :)

Merry Christmas and Happyhappy to all!

73, Mike
af4lq

Date: Sun, 22 Dec 2002 20:18:32 -0700
From: "Chris Trask" <chistrask@earthlink.net>
To: <n2apb@erols.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [142922] Re: Class E
Message-ID: <00a601c2aa31\$fa044b20\$360f9a40@ctrask>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

On Sunday, December 22, 2002 2:56 PM George Heron N2APB wrote:

>
> It's a small-but-important point in the Class E design that the
> inductor in the *drain circuit* is the frequency-specific
> component, not the LPF output filter (whose cutoffs, by nature,
> must be selected for the desired frequency).
>
> Lenny described in his article, as did the other authors in their
> references, that one has to adjust the windings on that toroid (in
> his schematic <http://www.njqrp.org/qhbextra/6/6b.html>) for optimum
> performance on his specific transmitter frequency.
>
> So, for this reason, I'm not certain how wide in operation that
> "optimum inductance setting" would be. Guess I'll also keep reading
> to learn how a wide-band amplifier stage is achieved with this
> Class E approach.
>

In my approach to Class F design, the output network components are designed with the centre frequency and desired Q as independent variables. The output resonator tank inductor is then tapped to give the output device the desired load resistance.

Chris

In Class E the output fundamental circuit is series resonant with the harmonics shunted to ground by either a shunt capacitor or additional series resonant circuits.

In Class F, the output tank is parallel resonant, with the idlers being parallel resonant circuits between the drain and the output resonant tank.

Class S is yet another variation of generating RF power with a pulse width modulated switching amplifier. There is also a Class G and a Class H, both of which are a bit too complicated to be worthwhile.

The best reference for learning about switching amplifiers is "Solid State Radio Engineering" by Krauss, Bostian, and Rab (Wiley, 1980).

Chris

```

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High Performance Mixers and Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: christrask@earthlink.net
<http://www.home.earthlink.net/~christrask>

Graphics by Loek Frederiks

Date: Sun, 22 Dec 2002 21:25:51 -0600
From: "George, W5YR" <w5yr@att.net>
To: <pwhelton@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [142924] Re: Need Copy of Zone Alarm File (Cease & Desist)
Message-ID: <021a01c2aa32\$ff7464e0\$0201a8c0@fairviewtx.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Pat, when I bring up Zone Labs on the PROGRAMS listing on the Start menu, one of the options is Uninstall Zone Alarm. Does your version not have this or did it not work? Need to know for future reference!

```
<:}
```

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

In the 57th year and it just keeps getting better!

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #03235

----- Original Message -----

From: "Pat Whelton" <pwhelton@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Sunday, December 22, 2002 8:38 PM

Subject: OT: Need Copy of Zone Alarm File (Cease & Desist)

Zone Alarm ought to be shot for putting out software that you
> can't un-install.

Date: Sun, 22 Dec 2002 19:44:01 -0800

From: "Trevor Jacobs" <kg6cyn@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [142925] Neat QRP Tube Kit!

Message-ID: <000501c2aa35\$88c51080\$0d0cf4d8@tjacobs>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Thought that some of you might like this:

<http://www.glowbugkits.com/>

It's a one tube transmitter KIT!!! Kinda neat...am thinking of getting
one. Just FYI...

73's Trev KG6CYN

<http://home.earthlink.net/~kg6cyn>

<http://www.qsl.net/kg6cyn>

Date: Sun, 22 Dec 2002 23:23:20 -0500

From: "Ben Pfeiffer" <bpfeiffer@tusco.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [142926] Re: This list is falling apart
Message-ID: <001701c2aa3b\$0711e1c0\$9dae0540@benpfeif>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl, I agree with Barry, W2BJ, if they don't like your questions or your answers they don't have to read them. Yesterday I decided to drop this list, at least for a while, there was just too damn much junk going on. A lot of it was directed at you, I think some of those folks must not have much of a life if their big thing for the day is to zing Karl. I wonder if a few of the more vocal ones have been asked to leave, there are a couple names that I have not seen for a day or two, aw probably not they may be on vacation, but it was a nice thought.

I decided to keep on checking the list, there are still a few good posts and I can still learn. I don't post often because I'm apparently not as thick skinned as you, that junk would get to me and I'd make a fool of myself.

Merry Christmas & Happy New Year (I'm not politically correct either)

72..de..ka8lle..Ben

Date: Sun, 22 Dec 2002 23:34:23 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [142927] Re: Neat QRP Tube Kit!
Message-ID: <BAY1-F143mCJiLyNfHg0001ae23@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Say,
That's a cute idea.
Looks like a 12 vac wall wart feeding a center-tapped filament transformer 'backwards' for the rig's 'high voltage' ac, followed by a full-wave rectifier and filter. Probably a Colpitts osc circuit for the transmitter. Center-tapped transformer also gives 6 VAC for the tube's filament. Think I even recognize one of those R/S 100 microhenry grab-bag inductors in there :)
A 6AQ5 rig. Ah, the good ol' days...

73.
Bill, N4QA
<http://www.qsl.net/n4qa/>

The new MSN 8: smart spam protection and 3 months FREE*.
[http://join.msn.com/?page=features/junkmail&xAPID=42&PS=47575&PI=7324&DI=7474&SU=](http://join.msn.com/?page=features/junkmail&xAPID=42&PS=47575&PI=7324&DI=7474&SU=http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf)
[http://www.hotmail.msn.com/cgi-bin/](http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf)
[getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf](http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf)

Date: Sun, 22 Dec 2002 23:00:50 -0600
From: "George, W5YR" <w5yr@att.net>
To: <n4qa@hotmail.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [142928] Re: Neat QRP Tube Kit!
Message-ID: <009401c2aa40\$444cade0\$0201a8c0@fairviewtx.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

In the "real" good old days, Bill, we called them "6L6's"! <:}

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
In the 57th year and it just keeps getting better!
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #03235

----- Original Message -----
From: "Bill, N4QA" <n4qa@hotmail.com>

> A 6AQ5 rig. Ah, the good ol' days...

>

> 73.

> Bill, N4QA

> <http://www.qsl.net/n4qa/>

>

>

>

>

>

> -----
> The new MSN 8: smart spam protection and 3 months FREE*.

>

> <http://join.msn.com/?page=features/junkmail&xAPID=42&PS=47575&PI=7324&>

DI=7474&SU=

>

http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf

>

Date: Mon, 23 Dec 2002 00:14:32 -0500
From: Mike Czuhajewski <wa8mcq@comcast.net>
To: qrp-1@Lehigh.EDU
Cc: Mike Czuhajewski <wa8mcq@comcast.net>
Subject: [142929] Re: Destroying CD-R Discs
Message-ID: <000301c2aa42\$2d874b40\$6401a8c0@gambrl01.md.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

This is all quite off topic, but I couldn't resist commenting anyhow.

"If you're that paranoid, just snap them in half...."

And if you're really paranoid, put them in a microwave (one at a time), set the timer for maybe ten seconds and let it rip. You don't need to let it run the full time; you can shut it off after the fireworks :-)

This is a very good method of making the thing unreadable. After you've seen the results, you'll understand :-) I suppose a good forensics team could recover a small portion of the data after doing this but it would take a lot of time and effort and some sophisticated techniques, and they'd have to want it really badly. But it's certainly enough to deter the casual hacker or snoop.

How good it is for the oven, I have no idea, although I've done it at least a half dozen times with no apparent damage yet. And you WILL have to air out the microwave pretty well to get rid of the smell! (Hint--do this while the wife, parents, roommate, whatever, are out of the house!)

Disclaimer--I accept no responsibility for damage to anyone's microwave who tries this! Do this at your own risk. I'm just reporting on a technique that I've used successfully without apparent damage (thus far) on a microwave oven that I own. Your mileage may vary. (I've never tried microwaving a large metallic object, but I suspect the fireworks are similar.)

73 and queue our pea DE WA8MCQ

Date: Mon, 23 Dec 2002 00:47:10 -0500
From: Jim Thiessen <jthiessen@videotron.ca>
To: qrp-l@Lehigh.EDU
Subject: [142930] W1CG Balun - some pictures...
Message-ID: <001501c2aa46\$bc71c340\$1e02a8c0@WorkGroup>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I posted some digital photos of the W1CG balun that I recently built at
<http://pages.infinit.net/va3kv/>. Have a look.

72's
Jim
VA3KV
Rockland Ontario

Date: Mon, 23 Dec 2002 00:38:19 -0500
From: "Dennis Payton" <dpayton@fwi.com>
To: <QRP-L@Lehigh.EDU>
Subject: [142931] Solder Sucker Idea
Message-ID: <003f01c2aa45\$80590c20\$88a854d1@6300us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've had a spring loaded Radio Shack solder sucker for several years and
have never been impressed with it when trying to clear plated-thru holes.
Recently though, I carefully filed the tip in a wedge shape so things would
be more air-tight between it, the soldering iron tip, and the solder joint
and it makes all the difference in the world. It really pulls the solder out
of the hole now.

Denny Payton, N9JXY
Auburn, IN

Date: Mon, 23 Dec 2002 00:24:10 -0500

From: Mike Czuhajewski <wa8mcq@comcast.net>
To: qrp-1@Lehigh.EDU
Cc: Mike Czuhajewski <wa8mcq@comcast.net>
Subject: [142932] Re: HB: Toroid Calculator update
Message-ID: <000301c2aa43\$86299cc0\$6401a8c0@gamb101.md.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I tried his program and highly recommend it. A really neat thing is that you can punch in a desired inductance and it gives the number of turns (and wire length) for 13 different types/sizes of cores simultaneously on one screen, both ferrite and powdered iron, which is incredibly handy. I don't think I've ever seen any other toroid calculator do that.

BTW, I asked him if that wire length included a little extra to account for leads. I'd hate to cut off a piece of wire, wind the proper number of turns and have zero length left to connect it into a circuit. He pointed out that if you click on Parameters on the top bar and scroll down a bit, you'll find a variable that you can set to allow for any additional lead length you want. The default value is 2", giving a pair of 1" leads.

Thanks for a nifty little program!

73 and queue our pea DE WA8MCQ

Date: Sun, 22 Dec 2002 21:19:55 -0800
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>,
<wa8mcq@comcast.net>
Subject: [142933] OT: Fun with Microwave Ovens was:Destroying CD-R Discs
Message-ID: <018801c2aa42\$ee6bc980\$0d0cf4d8@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If you really want to have fun with your microwave oven and have access to a Philips MSR 1200 or 700 watts discharge lamp, stick that puppy in there on high and watch it glow! It's pretty neat...

73's Trev KG6CYN
<http://home.earthlink.net/~kg6cyn>
<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: Mike Czuhajewski <wa8mcq@comcast.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Sunday, December 22, 2002 9:14 PM

Subject: Re: Destroying CD-R Discs

> This is all quite off topic, but I couldn't resist commenting anyhow.
>
> "If you're that paranoid, just snap them in half...."
>
> And if you're really paranoid, put them in a microwave (one at a
time), set
> the timer for maybe ten seconds and let it rip. You don't need to let
it run
> the full time; you can shut it off after the fireworks :-)
>
> This is a very good method of making the thing unreadable. After
you've seen
> the results, you'll understand :-) I suppose a good forensics team
could
> recover a small portion of the data after doing this but it would take
a lot
> of time and effort and some sophisticated techniques, and they'd have
to
> want it really badly. But it's certainly enough to deter the casual
hacker
> or snoop.
>
> How good it is for the oven, I have no idea, although I've done it at
least
> a half dozen times with no apparent damage yet. And you WILL have to
air out
> the microwave pretty well to get rid of the smell! (Hint--do this
while the
> wife, parents, roommate, whatever, are out of the house!)

>
> Disclaimer--I accept no responsibility for damage to anyone's
microwave who
> tries this! Do this at your own risk. I'm just reporting on a
technique that
> I've used successfully without apparent damage (thus far) on a
microwave
> oven that I own. Your mileage may vary. (I've never tried microwaving
a
> large metallic object, but I suspect the fireworks are similar.)
>

> 73 and queue our pea DE WA8MCQ
>
>

Date: Mon, 23 Dec 2002 00:23:09 -0600
From: "Joe Martin" <km5cw@arrl.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [142934] Re: W1CG Balun - some pictures...
Message-ID: <00ce01c2aa4b\$c4031280\$e62dbad0@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Nice job,,where did you get the box for the balun? I have the parts "in the mail" from NJ as we speak,,ordered it last week, to go with my RM20 I am working on right now,,just finished all the resistors and that pesky little mmic, that thing didn't want to stay still<g>. Also used some break out gold pins out of a scraped project 8 pin for the crystals.
How long did it take to build the box after stopping to take pics for us<g>
thanks it will be a good guide.
73 de KM5CW Joe
FISTS #4217 QRPARCI #11368
GRID-EM13kf
(<http://web.wt.net/~km5cw>)

..- .-.. ..-

----- Original Message -----

From: "Jim Thiessen" <jthiessen@videotron.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, December 22, 2002 11:47 PM
Subject: W1CG Balun - some pictures...

> I posted some digital photos of the W1CG balun that I recently built at
> <http://pages.infinit.net/va3kv/>. Have a look.
>
> 72's
> Jim
> VA3KV
> Rockland Ontario
>

Date: Mon, 23 Dec 2002 00:25:45 -0600
From: "Joe Martin" <km5cw@arrl.net>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [142935] Re: Fun with Microwave Ovens was:Destroying CD-R Discs
Message-ID: <00da01c2aa4c\$20dbb020\$e62dbad0@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

That's funny,,you have way too much time on your hands <vbg>
73 de KM5CW Joe
FISTS #4217 QRPARCI #11368
GRID-EM13kf
(<http://web.wt.net/~km5cw>)

..-.. ..-.. ..-..
----- Original Message -----

From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, December 22, 2002 11:19 PM
Subject: OT: Fun with Microwave Ovens was:Destroying CD-R Discs

> If you really want to have fun with your microwave oven and have access
> to a Philips MSR 1200 or 700 watts discharge lamp, stick that puppy in
> there on high and watch it glow! It's pretty neat...

>
> 73's Trev KG6CYN
> <http://home.earthlink.net/~kg6cyn>
> <http://www.qsl.net/kg6cyn>
>

> ----- Original Message -----

> From: Mike Czuhajewski <wa8mcq@comcast.net>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Sent: Sunday, December 22, 2002 9:14 PM
> Subject: Re: Destroying CD-R Discs
>

>
>
> > This is all quite off topic, but I couldn't resist commenting anyhow.
> >

> > "If you're that paranoid, just snap them in half...."

> >

> > And if you're really paranoid, put them in a microwave (one at a
> time), set

> > the timer for maybe ten seconds and let it rip. You don't need to let
> it run

> > the full time; you can shut it off after the fireworks :-)
> >
> > This is a very good method of making the thing unreadable. After
> you've seen
> > the results, you'll understand :-) I suppose a good forensics team
> could
> > recover a small portion of the data after doing this but it would take
> a lot
> > of time and effort and some sophisticated techniques, and they'd have
> to
> > want it really badly. But it's certainly enough to deter the casual
> hacker
> > or snoop.
> >
> > How good it is for the oven, I have no idea, although I've done it at
> least
> > a half dozen times with no apparent damage yet. And you WILL have to
> air out
> > the microwave pretty well to get rid of the smell! (Hint--do this
> while the
> > wife, parents, roommate, whatever, are out of the house!)
> >
> > Disclaimer--I accept no responsibility for damage to anyone's
> microwave who
> > tries this! Do this at your own risk. I'm just reporting on a
> technique that
> > I've used successfully without apparent damage (thus far) on a
> microwave
> > oven that I own. Your mileage may vary. (I've never tried microwaving
> a
> > large metallic object, but I suspect the fireworks are similar.)
> >
> > 73 and queue our pea DE WA8MCQ
> >
> >
>

Date: Mon, 23 Dec 2002 01:50:23 -0800
From: "Dave Fifield" <dave@redhotradio.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [142936] RE: OT Windows XP HELP
Message-ID: <000001c2aa68\$b7191430\$0300a8c0@AD6A>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"

Content-Transfer-Encoding: 7bit

Even simpler than that John.....pressing the F5 key
will cause it to instantly refresh.

72, Dave Fifield, AD6A

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf
Of John Sullivan

Sent: Saturday, December 21, 2002 9:52 PM

To: Low Power Amateur Radio Discussion

Subject: Re: OT Windows XP HELP

Simpler still, click View then Refresh.

72 de KG0MZ

----- Original Message -----

From: "KL7FDQ, Wayne Leman" <KL7FDQ@rangeweb.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Saturday, December 21, 2002 10:03 PM

Subject: OT Windows XP HELP

> You shouldn't have to do a complete reboot of your computer. Try just
> getting out of whatever file manager you are using such as Windows
Explorer,

> then get back into it. That should flush out the cache and give you a
> correct directory of the new disk. With some other file managers, you
> can just click once or twice on the icon for the disk drive whose
> directory

you

> are checking and that should reset things for the new directory.

>

> Wayne

> -----

> Wayne Leman

> _._ ._. _ _ . . . _ . _ . _ _ . _

>

> >

> > I know that this doesn't have anything to do with qrp but I thought

> > I

> would see if anyone on this group may have an answer to a problem that

> I have. I am running Windows XP and have found that when I use a

> floppy

disk
> it reads everything on the disk the first time I put it in the drive.

> If
I
> place another floppy in the drive, the files that come up are the ones
from
> the previous disk. I have to reboot the computer to read another
> disk. Even if I don't have a disk in drive A when I go to "my
> computer", it
still
> shows the files from the previous disk. Any suggestions or ideas
would
be
> appreciated.
> >
> > Ljerman@earthlink.net
> > WA3IMF
> >
>
>
>

Date: Mon, 23 Dec 2002 06:11:14 -0500
From: "William K. Harding" <k4ahk@ix.netcom.com>
To: "QRP-L Mail" <qrp-l@lehigh.edu>
Subject: [142937] Wash. Post news article
Message-ID: <E18QQZM-00056a-00@smtp6.mindspring.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

There is a letter to the editor in Monday's Washington Post about the photo
used in last weeks article on ham radio.

Bill - K4AHK

Date: Mon, 23 Dec 2002 05:24:32 -0600
From: Karl Kanalz <kkanalz@gcecispc.com>
To: "'wb8rcr@arrl.net'" <wb8rcr@arrl.net>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [142938] RE: Destroying CD-R Discs
Message-ID: <01C2AA43.BDA17100@KKANALZ>

Does the "laser burner" really burn that deeply through the "bottom layer"?
If so, then I'd put a scratch (or several scratches) on BOTH the top and bottom sides of the CD-ROM..... Hmmm... interesting phenomena, John!

Framistan (You can call me "Fram") K - W8TIF
McKinney, Texas

-----Original Message-----

From: John J. McDonough [SMTP:wb8rcr@arrl.net]
Sent: Sunday, December 22, 2002 7:52 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Destroying CD-R Discs

<< File: ATT00000.txt; charset = Windows-1252 >>

Date: Sun, 22 Dec 2002 16:38:38 -0500
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: <k6whp@verizon.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [142939] Re: Autek WM-1 Help
Message-ID: <000001c2aa78\$11bd20c0\$ee014918@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have two WM-1's here and both have the hot side negative.
carl / kz5ca

----- Original Message -----

From: "William Phinizy" <k6whp@verizon.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, December 22, 2002 1:25 PM
Subject: Re: Autek WM-1 Help

> My sincere thanks to all those who replied. This is one whale of a list. I
> received many offers of manual copies, one e-mailed a .jpg of the manual
> pages to me and another fine gentleman faxed a copy to me. I am sincerely
> grateful.

>

> By the way, the eHam.net reviews had some negative comments about the

unit,
> but *all* responses from this list were positive. Turns out that the device
> is accurate and well built. I personally did not find any construction
> problems with mine and, having diddled with the internal pots, had to go
> through the calibration process again.
>
> The meters are a bit pricey new: \$150 MSRP. Although, they are definitely
> competitive with such as the Mirage MP-1. It has dual meters, they are large
> (no squinting from the operating position to see what your power is), and
> are NOT CROSSED (personal prejudice). If you happen by a unit at a swap meet
> and can pick it up for a good price, then you won't be disappointed. If the
> manual is missing, it is available from Autek for \$3 and is only 5 8x11
> pages. I and others on this list will be more than happy to send/fax/email
> you a copy.
>
> Words of caution: Autek does NOT include the schematic of the main unit with
> the manual nor will they provide it for proprietary reasons. They do provide
> a schematic of the control head, however. Also, be advised that if you do
> not receive the original wall wart to power one, be double-extra-careful in
> substituting your own power source. I was warned by many respondents theirs
> was a negative center device. Many units were but it wasn't always the case.
> Don Foster, K5KW, said it best (reprinted without permission):
>
> > One word of caution. I stated in my e-mail that the center pin of the
> power
> > connector takes the minus voltage lead. Further reading of Autek material
> > indicates that this is not always so. Here's the reason for my apparent
> > discrepancy.
> >
> > I have two manuals, one for an older unit that I bought in 1990 and
> another
> > manual for one that I bought in 1998. The older manual is silent on which
> > lead is which. So, I checked my watt meter and it has a minus connection
> to
> > the power jack center pin. That's what I reported to you.
> >

> > However, in reading the newer manual that I found later, I read the
> > following:
> >
> > "The WM1 needs +9 to 18 VDC at approximately 15 ma. Plug the 115 VAC
> adapter
> > into the rear panel jack. If you use external power, note that SOME
WM1's
> > HAVE JACKS WITH THE INNER CONNECTOR '+', BUT MOST HAVE INNER CONNECTORS
> > "-". To avoid damage to the unit, temporarily connect your external
power
> > supply or battery "-" lead to the cabinet and connect the battery "+"
lead
> > to the WM1 reran power jack to see which lead is ground. Or, check with
an
> > ohmmeter between chassis and power jack."
> >
> > I believe I'd check with an ohmmeter instead of applying battery power.
> >
>
> ..I did and found mine WAS a center positive kind of guy - at least it
isn't
> smoking when I operate it!
>
> Thanks again to Don and all of the other folks for their time and help.
>
> Best wishes to all on the list for a merry Christmas and happy New Year.
>
> 72,
>
> Bill, k6whp
>
>

Date: Mon, 23 Dec 2002 05:42:47 -0600
From: Karl Kanalz <kkanalz@gcecis.com>
To: "'hottell@gulftel.com'" <hottell@gulftel.com>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [142940] RE: Writing on CD-ROMs
Message-ID: <01C2AA46.252C7B60@KKANALZ>

I use a Sanford marker pen (medium tip width) to label my home-burned
CD-ROMs and have never had a problem with "leak through", even after the CD
has been stored for several months. I don't have to press hard, and the
ink is indelible.

For "special ROMs", I use a printed label, made with "CD Stomper" paper and labels and they've never given a problem either.

Framistan (You can call me "Fram") K - W8TIF
McKinney, Texas

-----Original Message-----

From: Dave Hottell [SMTP:hottell@gulftel.com]
Sent: Sunday, December 22, 2002 8:29 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Destroying CD-R Discs

Gang,

This thread brings up a question I have had for a while. Has anyone ever experienced a CDR that was unreadable due to writing on the label with an ink that penetrated through the label and into the dye layer? I have heard this is possible, but have never actually read where it happened to anyone.

Does anyone think this is possible, or just a bunch of hooley.

73 es Merry Christmas to everyone!
Dave
AB9CA

At 08:52 PM 12/22/02 -0500, John J. McDonough wrote:

>Fran had it right, actually.

>

>The CD is read from the bottom, but the recorded layer is just below the
>label. Scratching the top will destroy the recording. Scratching the
>bottom will just make the recording hard to read. In fact, the polycarb
on

>the bottom is quite durable, the top relatively fragile. If you were
really

>paranoid, you could picture someone polishing the scratch out of the
bottom,

>but if the dye layer is destroyed, there's no recovering it.

>

>72/73 de WB8RCR <http://www.qsl.net/wb8rcr>

Date: Mon, 23 Dec 2002 06:56:25 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <hottell@gulftel.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [142941] Re: Destroying CD-R Discs
Message-ID: <004401c2aa7a\$5fe0df60\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> This thread brings up a question I have had for a while. Has anyone
ever
> experienced a CDR that was unreadable due to writing on the label with
an
> ink that penetrated through the label and into the dye layer? I have
heard
> this is possible, but have never actually read where it happened to
anyone.
>
> Does anyone think this is possible, or just a bunch of hooley.

Well, yes. I've had it happen. I think it depends on the disk and how
it is manufactured. Some I suspect put the 'layer' on the top. Others
sandwich it. I have two spindles here of blanks that I can write
directly on them with no problems.

I've seen 'Sharpie' pens specially designed for CDs. Don't know what
they are. I suspect a special ink that won't 'dissolve into' the CDs.

Mike

Date: Mon, 23 Dec 2002 06:58:17 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <kg6cyn@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [142942] Re: Fun with Microwave Ovens was:Destroying CD-R Discs
Message-ID: <006401c2aa7a\$ab2d4d00\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> If you really want to have fun with your microwave oven and have access

> to a Philips MSR 1200 or 700 watts discharge lamp, stick that puppy in
> there on high and watch it glow! It's pretty neat...

Ever stink one of those 'glow sticks' in the microwave???

Date: Mon, 23 Dec 2002 07:02:55 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [142943] Re: Neat QRP Tube Kit!
Message-ID: <BAY1-F177v0mTULL1190001b1a4@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Right, George.

Or, how 'bout a 'MOPA' from the '28 QST using a pair of type 10's ? <:)

73.
Bill, N4QA

The new MSN 8: smart spam protection and 3 months FREE*.
[http://join.msn.com/?page=features/junkmail&xAPID=42&PS=47575&PI=7324&DI=7474&SU=](http://join.msn.com/?page=features/junkmail&xAPID=42&PS=47575&PI=7324&DI=7474&SU=http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf)
[http://www.hotmail.msn.com/cgi-bin/](http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf)
[getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf](http://www.hotmail.msn.com/cgi-bin/getmsg&HL=1216hotmailtaglines_smartspamprotection_3mf)

Date: Mon, 23 Dec 2002 05:56:18 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [142944] Class E
Message-ID: <Pine.LNX.4.44.0212230549590.1378-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I went to the Caltech web page and:

Our 300 watt amplifier uses an International Rectifier, IRFP440 and the
500 watt amplifier employs an IRFP450. The MOSFETs have a maximum RMS

drain voltage of 500 volts with maximum RMS drain currents of 8.8 amps for the IRFP440 , and 14 amps for the IRFP450. Both transistors are available from Digi-Key. The 440 costs \$8.00 and the 450 costs \$11.00.

Class-E amplifiers are extremely efficient - about 90%. Because of the low loss, no cooling fan is required. No TR switch is needed; the received signal is piped through the amplifier itself. Even without an external filter, the amplifiers meet the FCC requirements for spurious emissions. They can be built and tuned up with an RF power meter, a multimeter, oscilloscope, and a dummy load. Tune-up consists of adjusting an input coil for matching and an output coil to set the power level.

I think they get Class E from "class efficient"= Class E.

>From this page you can download the article on the design of this High Power 40 meter solid state amp and build one!

That web page again is:

<http://www.cco.caltech.edu/~mmic/reshpubindex/class-e/poweramp.htm>

--

- Karl Larsen k5di Las Cruces, NM Az ScQRPions -

Date: Mon, 23 Dec 2002 08:24:55 -0500
From: Kfivebgb@aol.com
To: qrp-l@lehigh.edu
Subject: [142945] FS - LDG QRP Tuner
Message-ID: <1FED54FB.31088E00.007818E0@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

One last chance for someone to buy this little gem before I list it on eBay. This is a mint, like brand new LDG QRP automatic tuner (original model w/o latching relays) with manual. \$90 plus shipping/insurance from Houston, TX. Cashier's check or money order preferred.

Many thanks for taking a look and Happy Holiday Season to everyone on the reflector.

72,

Rod
K5BGB

Date: Mon, 23 Dec 2002 06:40:09 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Chris Cartwright <ccart@phideaux.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [142946] Re: 23 dB gain - Class E and Norcal 40A articles series
Message-ID: <Pine.LNX.4.44.0212230630570.1378-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Chris, don't get confused by the QST paper. I downloaded it from your web page and it's pretty clear. These guys who worked on it are headed to big jobs in industry or teaching. This project was their Lab work. To make use of the work you need to want a 300 or 500 watt amplifier with one FET in the final. They apply 120 volts DC to the source. It's driven by a QRP rig through a interesting wave shaper/driver.

To be successful I think you need to use EXACTLY what they used. Anything else will require extensive experimentation. And it sure is not QRP....:-)

On Sun, 22 Dec 2002, Chris Cartwright wrote:

> On Sun, 22 Dec 2002, brian wrote:
>
> > <http://www.cco.caltech.edu/~mmic/reshpubindex/class-e/poweramp.htm>
>
> Found this in the May/June '97 QST. Re-reading it now and getting
> confused again :)
>
> -- Chris Cartwright, Unix Administrator | ccart@phideaux.com --
> -- N3XRV ARRL-VE Norcal Zombie #163 | Oxford, PA 19363 FM29as --
> -- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --
>
>
>
--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Mon, 23 Dec 2002 08:35:44 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: <kkanalz@gcecis.com>
Subject: [142947] Re: Destroying CD-R Discs
Message-ID: <002c01c2aa88\$341598e0\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

"Burn" is really a misnomer. The polycarbonate substrate is transparent, so the laser passes through it without effect. The laser then discolours a dye layer. It's this discoloration of the dye that is sensed on reading.

The dye in a CD-R isn't all that stable, so leaving it out in the sun for a few days will effectively ruin it. Higher quality CD-Rs will supposedly last about 100 years if you keep them in the dark.

This applies only to CD-Rs. Plain CDs are an entirely different animal that happens to look similar.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Karl Kanalz" <kkanalz@gcecis.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, December 23, 2002 6:24 AM
Subject: RE: Destroying CD-R Discs

> Does the "laser burner" really burn that deeply through the "bottom
layer"?
> If so, then I'd put a scratch (or several scratches) on BOTH the top and
> bottom sides of the CD-ROM..... Hmmm... interesting phenomena, John!
>
> Framistan (You can call me "Fram") K - W8TIF
> McKinney, Texas
>

> -----Original Message-----

> From: John J. McDonough [SMTP:wb8rcr@arrl.net]
> Sent: Sunday, December 22, 2002 7:52 PM

> To: Low Power Amateur Radio Discussion
> Subject: Re: Destroying CD-R Discs
>
> << File: ATT00000.txt; charset = Windows-1252 >>
>
>

Date: Mon, 23 Dec 2002 08:43:27 -0500
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [142948] Re: This list is falling apart
Message-ID: <3E06CCAF.11695.4210C2D@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 22 Dec 2002 at 23:23, Ben Pfeiffer wrote:

I wonder if a few of
> the more vocal ones have been asked to leave, there are a couple names
that
> I have not seen for a day or two, aw probably not they may be on
vacation,
> but it was a nice thought.

Sorry to spoil you nice thoughts, but this confirmed Karl-zinger was out
operating at a Lighthouse all weekend. Won't even get into the part about
stuck in the mud, etc. It's all on <http://w2agn.net/lc102.html>.

+-----+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+-----+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Mon, 23 Dec 2002 06:19:17 -0700
From: <tlogan7@cox.net>
To: "QRP-1" <qrp-1@Lehigh.EDU>
Subject: [142949] Shielding materials
Message-ID: <001201c2aa85\$e53f5320\$1b836344@ph.cox.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello everyone -

I am quite excited about my own "customized" OHR 500 that I will be working on. It's always been a particularly favorite rig and on this one I am going to take a lot of liberties. This will require doing some shielding. I would like to know what anyone suggests for:

1) sources of shielding material?

2) since I don't have a metal break for bending, what ways have you developed for making bends on small metal boxes?

3) is any particular metal better than others for shielding?

I get the reflector in digest form, so perhaps you could cc your responses to tlogan7@cox.net - Thanks in advance.

73/Tim NZ7C

Date: Mon, 23 Dec 2002 07:18:40 -0700
From: Bruce Grubbs <mail@brucegrubbs.com>
To: myetsko@insydesw.com,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [142950] Re: Destroying CD-R Discs
Message-ID: <E18QTPR-0000AL-00@falcon.mail.pas.earthlink.net>
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Sunday 22 December 2002 07:33 pm, Mike Yetsko wrote:

> If you're that paranoid, just snap them in half....

Careful! The polycarbonate shatters like glass. Don't ask me how I know....

73
Bruce
N7CEE

Date: Mon, 23 Dec 2002 07:22:48 -0700
From: "Chris Trask" <chistrask@earthlink.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [142951] Re: Class E
Message-ID: <003801c2aa8e\$c63168c0\$39b33b41@ctrask>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

On Monday, December 23, 2002 5:56 AM Karl F. Larsen erroneously speculated:

>
> I think they get Class E from "class efficient"= Class E.
>

No, Karl. It's called Class E because E comes after D in the alphabet, followed by F, then G, then H for the next three classes of switching amplifiers.

Didn't they use the alphabet in the Army, or did they tell you it didn't exist?

Chris

```

      /-----\
     /  What's all this  \
    / extinct stuff, anyhow? \
   /-----\
  _ | /
oo\
(--) \
     \  .  .  .  .  .
      \  .  .  .  .  .
       \  "
        \  ( ) \
         \  '-| )__| :. \
          \  | | | | \ '.
           \  c__; c__; '---'>.__

```

High Performance Mixers and
Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: chistrask@earthlink.net
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

Date: Mon, 23 Dec 2002 08:30:07 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-1@LeHigh.EDU>
Subject: [142952] Fox - Winter Fox Hunt Teams Results.

Message-ID: <Pine.LNX.4.33.0212230823130.2837-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #12 - WOMC -

Burbank Wrecking Crew - 39

Michael - K6MMC *
Todd - AG0T
Don - KC2CK
Woody - WD9F
Trev - KG6CYN *

Cheeseheads - 46

Jerry - N9AW *
Jim - WA9TZE *
Lon - W9XU *
Rick - NK9G *
Glenn - WE9K

NE-TX TORNADOS - 54

Chuck - W5USJ *
Bill - K5JHP * Clean
Don - K5DW * Sweep
Doc - W5TB *
George - W5YR *

p-Shooters - 22

Chuck - K7Q0
Gary - NQ7T
Jim - KC1FB
Wayne - W5KDJ
Tony - KB9YIG *

Raiders of the Lost RF - 43

Dan - VE6EX *
Earl - VA6RF *
Fred - VE3FAL
Robert - VE6JAZ *
Bruce - VE5RC *

Swamp Rats - 47

Larry - N2WW
ET - N1FN
Paul - K4FB
Doc - K0EVZ
Tom - N1TP *

K1 K9s - 33

Lloyd - K3ESE
John - K8HJ
Ralph - KD1R
Joe - W2RBA
Alan - N3BJ *

Cajun Thunder - 39

Wayne - K5E0A *
Jim - N5IB
Vern - AA50
Wayne - N5YFC
Tom - AC5JH *

Great Lakers - 34

Mark - K2Q0
Tom - KV2X
Al - K2ZN
Bill - K2TER

Underdogs - 44

Dan - N4ROA *
Dave - W0CH *
Ron - KI0II
Randy - K7TQ

Jeff - VA3JFF

Art - KB7WW *

Aluminum Kings - 36

Dust Devils - 35

Bob - N4BP *

George - KR5C *

Jim - N0UR *

Martin - N6LIF

Al - K0FRP

Eric - NM5M

Pat - K0PC

Dale - K5SR *

Todd - N9NE *

Lew - N5ZE *

Loco-motives - 31

Frank - K2PQ *

Jack - K5FSE *

Jason - N8XE *

Mike - VA6MJT

Wayne - K9DI

..please send any changes and/or corrections directly to me...thank
you...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 23 Dec 2002 09:49:48 -0500
From: Vince Santis <vsantis@earthlink.net>
To: "QRP List (E-mail)" <qrp-l@lehigh.edu>
Cc: "Tentec (E-mail)" <tentec@contesting.com>
Subject: [142953] Propagation software
Message-ID: <01C2AA68.BD8F48C0.vsanitis@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Thanks to all who responded, W6El prop was the one I was looking for. The list
came through again, thanks!

Vince Santis,N1VS
Winsted, CT
NEQRP # 598
PRP-L # 2372
FISTS# 8053
CC # 1161
K1 #841

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.431 / Virus Database: 242 - Release Date: 12/17/02

Date: Mon, 23 Dec 2002 07:57:42 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <QRP-L@lehigh.edu>
Subject: [142954] F/S J-38 Key
Message-ID: <000701c2aa93\$a62bd4c0\$c5ca1341@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For sale J-38 key with bakelight base and all original hardware. Offered
here before going on e-bay 72 Cal KF7ET

Date: Mon, 23 Dec 2002 10:00:50 -0500
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [142955] Re: Class E
Message-ID: <3E06DED2.19244.467E7B5@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 23 Dec 2002 at 7:22, Chris Trask wrote:

> On Monday, December 23, 2002 5:56 AM Karl F. Larsen erroneously speculated:

>
> >
> > I think they get Class E from "class efficient"= Class E.
> >
>
> No, Karl. It's called Class E because E comes after D in the
alphabet,
> followed by F, then G, then H for the next three classes of switching
> amplifiers.
>
> Didn't they use the alphabet in the Army, or did they tell you it
didn't
> exist?
>

Shame on you! You'll offend all those who dislike zinging poor Karl. I've
been assured that they they will report us to the list mommy.

Besides that, Karl will wipe you off the air with his new 'SUPERSTATION'
which will consist of his incomparable FT-817 driving a Class E (or is it
F) Amp running at 113%, fed to his EH antenna.

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Mon, 23 Dec 2002 09:10:31 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: w5yr@att.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142956] Re: Need Copy of Zone Alarm File (Cease & Desist)
Message-ID: <5.2.0.9.0.20021223090922.00a81d68@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I have used Zone Alarm for years, it does have a un install icon in the
programs folder and it has always worked.

At 09:25 PM 12/22/2002, George, W5YR wrote:
>Pat, when I bring up Zone Labs on the PROGRAMS listing on the Start
>menu, one of the options is Uninstall Zone Alarm. Does your version
>not have this or did it not work? Need to know for future reference!
><:}
>

>73/72, George
>Amateur Radio W5YR - the Yellow Rose of Texas
>In the 57th year and it just keeps getting better!
>Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
>K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #03235
>
>----- Original Message -----
>From: "Pat Whelton" <pwhelton@earthlink.net>
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Sent: Sunday, December 22, 2002 8:38 PM
>Subject: OT: Need Copy of Zone Alarm File (Cease & Desist)
>
>
>Zone Alarm ought to be shot for putting out software that you
> > can't un-install.

Cecil
KD5NWA

Date: Mon, 23 Dec 2002 10:18:42 -0500
From: "Terres Family" <terresfm@ncia.net>
To: <qrp-1@Lehigh.EDU>
Subject: [142957] where do i get Conductive Paint for RF shielding?
Message-ID: <000001c2aa96\$946f65a0\$8881f3ce@amdxp2100>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi guys,

I have searched a little and found some sources, some are very expensive even for quite small quantities. And there are different degrees of conductivity. So, thought I'd ask here.

Any advice?

Thanks & 72

Jerry Terres aa1of
Franconia NH

Date: Mon, 23 Dec 2002 09:22:57 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@LeHigh.EDU>
Subject: [142958] Fox - Winter Fox Hunt Teams Results.
Message-ID: <Pine.LNX.4.33.0212230913230.7808-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #13 - WD7Z -

Burbank Wrecking Crew - 44

Michael - K6MMC *
Todd - AG0T * Clean
Don - KC2CK * Sweep
Woody - WD9F *
Trev - KG6CYN *

Cheeseheads - 51

Jerry - N9AW *
Jim - WA9TZE * Clean
Lon - W9XU * Sweep
Rick - NK9G *
Glenn - WE9K *

NE-TX Tornados - 56

Chuck - W5USJ *
Bill - K5JHP
Don - K5DW *
Doc - W5TB
George - W5YR

p-Shooters - 25

Chuck - K7QO
Gary - NQ7T *
Jim - KC1FB *
Wayne - W5KDJ
Tony - KB9YIG *

Raiders of the Lost RF - 48

Dan - VE6EX *
Earl - VA6RF * Clean
Fred - VE3FAL * Sweep
Robert - VE6JAZ *
Bruce - VE5RC *

Swamp Rats - 52

Larry - N2WW *
ET - N1FN * Clean
Paul - K4FB * Sweep
Doc - K0EVZ *
Tom - N1TP *

K1 K9s - 37

Lloyd - K3ESE *
John - K8HJ *
Ralph - KD1R
Joe - W2RBA *
Alan - N3BJ *

Cajun Thunder - 42

Wayne - K5E0A
Jim - N5IB *
Vern - AA50 *
Wayne - N5YFC
Tom - AC5JH *

Great Lakers - 37

Underdogs - 49

Mark - K2Q0 *	Dan - N4ROA *
Tom - KV2X	Dave - W0CH * Clean
Al - K2ZN *	Ron - KI0II * Sweep
Bill - K2TER	Randy - K7TQ *
Jeff - VA3JFF *	Art - KB7WW *

Aluminum Kings - 41

Dust Devils - 38

Bob - N4BP *
Jim - N0UR * Clean
Al - K0FRP * Sweep
Pat - K0PC *
Todd - N9NE *

George - KR5C *
Martin - N6LIF
Eric - NM5M
Dale - K5SR *
Lew - N5ZE *

Loco-motives - 33

Frank - K2PQ *
Jack - K5FSE *
Jason - N8XE
Mike - VA6MJT
Wayne - K9DI

..please send any changes and/or corrections directly to me...thank
you...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 23 Dec 2002 09:21:12 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: qrp-l@lehigh.edu
Subject: [142959] Unsubscribe to computer list
Message-ID: <5.2.0.9.0.20021223091936.00a8fea0@mail.arkansasusa.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

How do I unsubscribe to this computer list and get on the QRP-L list instead?

Cecil
KD5NWA

Date: Mon, 23 Dec 2002 09:48:05 -0600
From: "Joe Martin" <km5cw@arrl.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [142960] Re: Propagation software
Message-ID: <003701c2aa9a\$b0daa5c0\$df43adcf@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just installed this a few min ago,,this is great stuff! Truly a gift to hams everywhere. I just cked out my chances to alaska from N.Tx for a sample,,I love all the info provided.

73 de KM5CW Joe
FISTS #4217 QRPARCI #11368
GRID-EM13kf
(<http://web.wt.net/~km5cw>)

.._.. _.._.. _.._..

----- Original Message -----

From: "Vince Santis" <vsantis@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, December 23, 2002 8:49 AM
Subject: Propagation software

> Thanks to all who responded, W6El prop was the one I was looking for. The list came through again, thanks!

>

> Vince Santis,N1VS

> Winsted, CT

> NEQRP # 598

> PRP-L # 2372

> FISTS# 8053

> CC # 1161

> K1 #841

>

>

> ---

> Outgoing mail is certified Virus Free.

> Checked by AVG anti-virus system (<http://www.grisoft.com>).
> Version: 6.0.431 / Virus Database: 242 - Release Date: 12/17/02
>
>

Date: Mon, 23 Dec 2002 10:48:38 -0500
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [142961] Re: Unsubscribe to computer list
Message-ID: <3E06EA06.12320.493B039@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 23 Dec 2002 at 9:21, KD5NWA wrote:

> How do I unsubscribe to this computer list and get on the QRP-L list instead?
>
> Cecil
> KD5NWA
>
>

If it offends you so much, why did you post:

"I have used Zone Alarm for years, it does have a un install icon in the programs folder and it has always worked."

You can't have it both ways.

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Mon, 23 Dec 2002 10:54:24 -0500
From: "George Osier" <gosier@twcnny.rr.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [142962] 4J6ZZ 28010 !!!
Message-ID: <000701c2aa9b\$916d2fe0\$aa634342@twcnny.rr.com>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

28010 KHZ Got em !!!

700 mw at 1529

73 s

George Osier , N2JNZ / QRP

Date: Mon, 23 Dec 2002 08:05:55 -0800
From: "Rich Wilkerson" <richqrp@cox.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [142963] Re: OT Windows XP HELP
Message-ID: <001c01c2aa9d\$2d77d290\$c1770744@cx55215a>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The things you learn on this group.. Thanks for that one Dave..
72, Rich, WD6FDD

----- Original Message -----
From: "Dave Fifield" <dave@redhotradio.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 1:50 AM
Subject: RE: OT Windows XP HELP

> Even simpler than that John.....pressing the F5 key
> will cause it to instantly refresh.

>

> 72, Dave Fifield, AD6A

>

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf
> Of John Sullivan
> Sent: Saturday, December 21, 2002 9:52 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: OT Windows XP HELP

>

>

> Simpler still, click View then Refresh.


```
> 72 de KG0MZ
>
> ----- Original Message -----
> From: "KL7FDQ, Wayne Leman" <KL7FDQ@rangeweb.net>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Saturday, December 21, 2002 10:03 PM
> Subject: OT Windows XP HELP
>
>
> > You shouldn't have to do a complete reboot of your computer. Try just
> > getting out of whatever file manager you are using such as Windows
> Explorer,
> > then get back into it. That should flush out the cache and give you a
> > correct directory of the new disk. With some other file managers, you
> > can just click once or twice on the icon for the disk drive whose
> > directory
> you
> > are checking and that should reset things for the new directory.
> >
> > Wayne
> > -----
> > Wayne Leman
> > _._ _._ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
> >
> > > I know that this doesn't have anything to do with qrp but I thought
> > > I
> > would see if anyone on this group may have an answer to a problem that
> > I have. I am running Windows XP and have found that when I use a
> > floppy
> disk
> > it reads everything on the disk the first time I put it in the drive.
> >
> > If
> I
> > place another floppy in the drive, the files that come up are the ones
> from
> > the previous disk. I have to reboot the computer to read another
> > disk. Even if I don't have a disk in drive A when I go to "my
> > computer", it
> still
> > shows the files from the previous disk. Any suggestions or ideas
> would
> be
> > appreciated.
> > >
```

> > > Ljerman@earthlink.net
> > > WA3IMF
> > >
> >
> >
> >
> >
>
>
>

Date: Mon, 23 Dec 2002 10:19:05 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142964] Re: Unsubscribe to computer list
Message-ID: <5.2.0.9.0.20021223100629.00a930c0@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I clicked on reply to the person directly, not to the group, but my computer has a mind of it's own, either that or I had a brain fart. I was mostly thinking on the CD thread, the answer was given early on, and the thread kept going and going and going, with all sorts of incorrect answers. Mea culpa for not looking at the "To" field to make sure it didn't include the Qrp-l list.

.At 09:48 AM 12/23/2002, W2AGN wrote:
>On 23 Dec 2002 at 9:21, KD5NWA wrote:
>
> > How do I unsubscribe to this computer list and get on the QRP-L list
> instead?
> >
> > Cecil
> > KD5NWA
> >
> >
>
>If it offends you so much, why did you post:
>
>"I have used Zone Alarm for years, it does have a un install icon in the
>programs folder and it has always worked."
>
>You can't have it both ways.
>
>
>---
>+---+---+---+---+ John L. Sielke

>|W||2||A||G||N| http://www.w2agn.net [UPDATED]
>+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Cecil
KD5NWA

Date: Mon, 23 Dec 2002 09:21:12 -0700
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [142965] Re: This list is falling apart
Message-ID: <20021223.092116.-358209.0.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For those of you that apparently don't follow the utterings of DI, it is not the questions that are asked, as we all have questions that need answered at times, it is flat out statements made that are misleading, wrong and issued with a "my information is absolute, everyone else is in error" attitude that is offensive. It would not hurt some to go and read the archives for background.

So much to absorb, so little sponge!
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M
NARTE-NCT2R QRP-ARCI 5784
El Paso, (FAR WEST) TEXAS

Date: Mon, 23 Dec 2002 09:21:44 -0700
From: "Jess Gypin" <jessmx5@earthlink.net>
To: <FT817@yahooogroups.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
Subject: [142966] Rascal interface for sale. \$49.95 with shipping.
Message-ID: <000901c2aa9f\$68cd4440\$41365742@jgypin>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This one is brand new. I cannot use it due to not enough serial ports on my system. The return charge is going to be 10% handling plus the original

handling and shipping of 7.50. That means it will cost me \$6.00 to ship it, and \$12.50 in return fees. That means that my net back in my pocket is 38.95. It is not worth it. Plus I have been given enough hassle from Buck, both via email and via the phone that I really don't care hassle with returning it unless I have to. I am offering this interface here for the original price, 49.95 and I will cover the shipping to the lower 48. Email me if you are interested. This has not even been opened, or used other than to verify the contents. Comes with all of the necessary interface cables to work with either an FT817, FT100 or most of the other radios that use the standard Yaesu data cable interface.

Jess AE0CW

Date: Mon, 23 Dec 2002 09:22:04 -0700
From: "Jess Gypin" <jessmx5@earthlink.net>
To: <KD5NWA@cbayona.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142967] Re: Unsubscribe to computer list
Message-ID: <000f01c2aa9f\$7009af00\$41365742@jgypin>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

;-)

----- Original Message -----

From: "KD5NWA" <KD5NWA@cbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, December 23, 2002 8:21 AM
Subject: Unsubscribe to computer list

> How do I unsubscribe to this computer list and get on the QRP-L list instead?

>

> Cecil

> KD5NWA

>

Date: Mon, 23 Dec 2002 09:54:09 -0700 (MST)

From: "Karl F. Larsen" <k5di@zianet.com>
To: Chris Trask <chistrask@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [142968] Re: Class E
Message-ID: <Pine.LNX.4.44.0212230950450.10085-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Chris, the problem is that IF you understand what Class A,B, and C are you realize that these three classes cover ALL POSSIBLE cases. If You doubt this I can give you several referances available in any good University Library.

On Mon, 23 Dec 2002, Chris Trask wrote:

> On Monday, December 23, 2002 5:56 AM Karl F. Larsen erroneously speculated:

>

> >

> > I think they get Class E from "class efficient"= Class E.

> >

>

> No, Karl. It's called Class E because E comes after D in the alphabet,
> followed by F, then G, then H for the next three classes of switching
> amplifiers.

>

> Didn't they use the alphabet in the Army, or did they tell you it didn't
> exist?

>

> Chris

>

> /-----\ High Performance Mixers and
> / What's all this \ Amplifiers for RF Communications
> / extinct stuff, anyhow? \

> \-----/ Chris Trask / N7ZWY
> _ | / Principal Engineer
> oo\ Sonoran Radio Research
> (__) \ P.O. Box 25240
> \ \ . ' \ Tempe, Arizona 85285-5240
> \ \ / \

> \ " \ IEEE Member #40274515
> . () \

> ' - |) _ | : . \ Email: chistrask@earthlink.net
> | | | | \ ' . http://www.home.earthlink.net/~chistrask
> c__ ; c__ ; ' - . ' > . _

>

>

Graphics by Loek Frederiks

>

>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Mon, 23 Dec 2002 11:56:48 -0500
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [142969] Re: This list is falling apart
Message-ID: <3E06FA00.20748.4D21B30@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 23 Dec 2002 at 9:21, William R Colbert wrote:

> For those of you that apparently don't follow the
> utterings of DI, it is not the questions that are asked,
> as we all have questions that need answered at times,
> it is flat out statements made that are misleading, wrong
> and issued with a "my information is absolute, everyone
> else is in error" attitude that is offensive. It would not hurt
> some to go and read the archives for background.
>

Thank you, Ray. EXACTLY the point I have been trying to make. Someone who doesn't know better might actually think Karl knew what he was talking about.

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| http://www.w2agn.net [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Mon, 23 Dec 2002 12:02:46 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [142970] Radios & computers...don't mean to fan any flames, but...
Message-ID: <BAY1-F83zxDPHprp5yL00001da4@hotmail.com>
Mime-Version: 1.0

Content-Type: text/plain; format=flowed

To paraphrase a wellknown American, R.K.(no, not that one...the other...)
Can't they all just get along?

I can IMAGINE, even PRACTICE the one without the other, though I don't
always like to. I also occasionally use too many I's, commas, and end a
sentence with a preposition but I don't always know what for.

Anyway, I remember a feeling that I was getting involved in something
'important' back in '77 while completing that excellent Heathkit course in
microprocessor programming & interfacing. I appreciated then as I do today,
however, that many persons were (are) way ahead of me in that game...Dad
worked at IBM, somewhere in NY, for a while in the '50's when just an
accumulator register required the space of a walk-in closet...

And, the little project I did in instrumentation class, using that same
microprocessor trainer (and some other stuff) for closed-loop control of a
throttle-valve in a simple flow application.

I remember as a ham in my teens, wondering if something similar to the afc
circuit in a simple fm table radio might be used for stabilizing the vfo in
Dad's old RME-45 communications receiver.

I'm no sage, but in my world, it's all the same stuff...'just' rearranged to
suit the application.

But, don't get me wrong, I'm very proud of (and awed by) the scientists,
engineers, technicians and experimenters who expend enormous amounts of time
and energy figuring it all out. <<<There I go again.

73.

Bill, N4QA

<http://www.qsl.net/n4qa/>

MSN 8 with e-mail virus protection service: 3 months FREE*.

<http://join.msn.com/?page=features/virus&xAPID=42&PS=47575&PI=7324&DI=7474&SU=>

<http://www.hotmail.msn.com/cgi-bin/>

[getmsg&HL=1216hotmailtaglines_eliminateviruses_3mf](http://www.hotmail.msn.com/cgi-bin/?getmsg&HL=1216hotmailtaglines_eliminateviruses_3mf)

Date: Mon, 23 Dec 2002 10:42:37 -0700

From: "Chris Trask" <chistrask@earthlink.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [142971] Re: Class E
Message-ID: <012701c2aaaa\$aafc940\$39b33b41@ctrask>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

>
> Hi Chris, the problem is that IF you understand what Class A,B, and C
> are you realize that these three classes cover ALL POSSIBLE cases. If
> You doubt this I can give you several referances available in any good
> University Library.
>

Karl,

No, they do not. None of the three classes that you've listed anticipate any of the switching amplifier configurations, nor do they even anticipate other classes of linear amplifiers, such as Class AB, AB1, or AB2.

Anyone who just started reading this thread might get the impression that I know nothing about amplifiers and you are the world's foremost authority. Quite the opposite is true. Not less than three days earlier you had absolutely no idea what a Class E amplifier was and stated in exact words that you had never heard of such a thing before in your life.

Don't come forward now trying to preach amplifier classes to me or to anyone else. You have proven to all of us that you yourself have no knowledge of what a switching amplifier is or how it works. And if you're going to copy the references from my web page to us and now claim that they were yours to begin with, I will have an excellent opportunity to expose you for what you are.

Don't push it. Trying to promote yourself as being an authority on something that a few days ago you had never heard of is only get to deepen your already poor reputation.

Chris

,-----. / What's all this \ / extinct stuff, anyhow? / \ _ /	High Performance Mixers and Amplifiers for RF Communications Chris Trask / N7ZWY Principal Engineer
---	--


```
> Hi guys,  
>  
> I have searched a little and found some sources, some are very expensive  
> even for quite small quantities. And there are different degrees of  
> conductivity. So, thought I'd ask here.  
>  
> Any advice?  
>  
> Thanks & 72  
>  
> Jerry Terres aa1of  
> Franconia NH
```

Date: Mon, 23 Dec 2002 12:42:28 -0500
From: "Marty N5NW" <n5nw@n5nw.org>
To: <qrp-1@lehigh.edu>
Subject: [142973] Welcome to the Amateur Century (article from the Financial Times)
Message-ID: <000501c2aaaa\$ad1c4af0\$3339a8c0@dayton.hospiceofdayton.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Financial Times

December 23, 2002

Comment & analysis

Welcome to the Amateur Century

By Charles Leadbeater

Published: December 22 2002 19:35 | Last Updated: December 22 2002 19:35

For the past two centuries experts have risen to command virtually every field: science, medicine, sport, education, parenting, cooking. The professionals have pushed aside bumbling amateurs.

Yet in the century to come a new breed of amateur - not lone inventors but dedicated, educated, well resourced people, working in networks - will make a comeback. The reign of the professionals has passed its peak.

As an example of the trends at work, take astronomy. The discoveries that established astronomy as a field of scientific inquiry were made by inquisitive amateurs. In the 19th and 20th centuries those discoveries were formalised and measured by a new breed of publicly funded professional astronomers, working with telescopes well beyond the reach of the amateurs.

These days, as Timothy Ferris points out in *Seeing in the Dark*, a history of modern amateur astronomy, thanks to digital cameras, computers, software and broadband communications a committed amateur has access to equipment of a

sophistication that only a handful of observatories could afford 20 years ago. The internet allows amateurs to co-ordinate their activities and multiply their power.

There are limits to what amateurs can achieve. They cannot launch probes deep into space or theorise new discoveries. It is unlikely that amateurs will make significant discoveries in quantum physics, for example. Professionals will remain important. Yet astronomy and other fields like it will increasingly become "pro-am" activities, in which professionals and amateurs will sometimes compete and often complement one another's work.

This trend towards "pro-am" organisation is already affecting many other fields of endeavour, especially in societies in which people are more vocal and highly educated; they enjoy longer life spans, which means they can spend more time as adults learning and exploring; and where cheap, powerful, miniaturised technologies enable them to share ideas with others.

As Freeman Dyson, the physicist, pointed out in a recent issue of The New York Review, biology may be ripe for the kind of transformation that astronomy has gone through. At the moment, tools for genetic engineering are confined to laboratories, just as mainframe computers were four decades ago. Thousands of plant and animal breeders, farmers and gardeners will excitedly take up genetic kits as they become more affordable over the next few years. The same trends are well established outside science. Genealogy attracts more users to the internet; and a "do-it-yourself" culture is vital to sport.

In software, some of the most impressive innovations in recent years have come from the Open Source movement, which creates software, such as the Linux operating system, by bringing together networks of committed enthusiasts to share their ideas. In politics, traditional political parties have to contend with a multitude of non-government organisations and pressure groups that have mushroomed over the past decade.

Some professionals will see this gathering invasion force of informed and co-ordinated amateurs as a threat to their prestige. The more open and thoughtful will recognise that the new amateurs cannot be easily dismissed. In future the professionals will have to work with, learn from and sometimes compete with amateurs. Clever companies and organisations will know how to mobilise the ideas and input of amateur enthusiasts.

Others, with some justification, will point to the risks of unregulated amateurism: biological warfare technologies falling into the hands of terrorists, for example. Yet those worries should not lead to blanket bans on the spread of knowledge out of professional domains and into society. Nor should they deflect us from the huge benefits we are set to reap from a flowering of amateurism.

As Freeman Dyson puts it: "In the most important of all human responsibilities, the raising of children and grandchildren, amateurs do the lion's share of the work. In almost all the varied walks of life, amateurs have more freedom to experiment and innovate. The fraction of a population who are amateurs is a good measure of the freedom of a society."

Thanks to computers, education, communications and a spreading democratic culture, the conditions for Dyson's "amateurism index" are improving. In times that seem so troubled, the rebirth of amateurism should be one cause for optimism.

The writer is author of Up the Down Escalator: Why the Global Pessimists are Wrong

Date: Mon, 23 Dec 2002 11:47:52 -0600
From: "Glenn Butzlaff" <gbutzlaff@wi.rr.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [142974] RE: This list is falling apart
Message-ID: <000201c2aaab\$6a8b2a70\$6c601f41@sunroom>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

I hate to add to the signal to noise ratio, but...oh well. I personally enjoy Karl's nuggets of wisdom. In fact, it reminds me of my = father-in-laws endless nuggets of wisdom, given freely, without solicitation. Karl = appears to be in the same age bracket as my father-in-law (mid 80's). I don't = think my wife and I could have ever raised kids or managed any other aspect of = our lives without his constant intervention. He tells us that often as a reminder of his great wisdom. I know that if my father-in-law ever stops giving advice my personal affairs would go down the tubes (he told me = so!), like wise my amateur radio hobby would suffer a similar fate if these nuggets of wisdom would stop on the list.

Glenn Butzlaff, WE9K

Go Cheeseheads!

Date: Mon, 23 Dec 2002 09:48:17 -0800
From: "Bill Jones" <kd7s@psnw.com>
To: <wa8mcq@comcast.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [142975] Re: HB: Toroid Calculator update
Message-ID: <000801c2aaab\$79f787b0\$9110010a@fresno>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I agree with Mike. This little program is fantastic and a real Christmas present from W8DIZ.

=====
Bill Jones - <><
There is no "X" in Christmas
Sanger, California
=====

----- Original Message -----
From: "Mike Czuhajewski" <wa8mcq@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, December 22, 2002 21:24 PM
Subject: Re: HB: Toroid Calculator update

> I tried his program and highly recommend it

Date: Mon, 23 Dec 2002 10:53:24 -0700
From: "Rod N0RC" <rod@n0rc.us>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [142976] OT & List "Drift"
Message-ID: <000f01c2aaac\$312a2e60\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

I noticed just the other day that the moon was full. Coincidentally, I

noticed a wide range of topics posted to QRP-L, some were even QRP related! ;-)

New QRP-L members and lurkers, hang tight, this phase will pass.

Others:

1. Write lot's of non QRP related stuff, or postings to complain about it.

-or-

2. Make a posting that is QRP related. Tell us about a recent project, report on a book or article you read. Maybe Santa brought you a new rig, tells us about it, why is it a good QRP rig? Offer up a comparison of your new rig, to other popular QRP rigs. Did you see an interesting circuit in a recent magazine?

Happy Holidays
73, Rod N0RC

Date: Mon, 23 Dec 2002 17:55:21 -0600
From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [142977] Fw: where do i get Conductive Paint for RF shielding?
Message-ID: <025c01c2aade\$c1c26780\$6d74da0c@mchsi.com>

Jerry: Just happens that there is an add in the Jan. 2003 QST for new products. " Paint " to match the original colors of the old rigs etc. Doesn't say anything about conductivity but one would think that since its made specifically for radio's, it would work FB. Maybe it will work for you:
Here is the web page in the add.
www.nctotalelectronics.com

Good luck and have fun painting: Jerry N0JRN

----- Original Message -----
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, December 23, 2002 11:40 AM
Subject: Re: where do i get Conductive Paint for RF shielding?

> I used to use a paint called something like 'Aquadaq'. I probably
> butchered
> that pretty badly though. It used to be used for spraying in TV
sets on
> the back of the tube, and I used to get it from TV repair 'houses'.
I
> know,
> they are few and far between now...
>
> Mike
>
> > Hi guys,
> >
> > I have searched a little and found some sources, some are very
expensive
> > even for quite small quantities. And there are different degrees
of
> > conductivity. So, thought I'd ask here.
> >
> > Any advice?
> >
> > Thanks & 72
> >
> > Jerry Terres aa1of
> > Franconia NH
>

Date: Mon, 23 Dec 2002 11:16:28 -0700
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [142978] Re: OT
Message-ID: <20021223.111630.-358209.6.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Absolutely correct Rod. And for the interesting circuit
I think the Tuna Tin 5 Tube rig in the January issue of
QST - a perfect glowbug-qrp project.

73 and Happy Holidays

Ray
So much to absorb, so little sponge!

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M
NARTE-NCT2R QRP-ARCI 5784
El Paso, (FAR WEST) TEXAS

Date: Mon, 23 Dec 2002 13:22:27 -0500 (EST)
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [142979] A tendency toward "knowitallism"
Message-ID: <Pine.LNX.4.44.0212231318310.15850-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Those of you who follow the Simpsons will remember that in Lisa's
"permanant record," she is described as having a tendency toward
"knowitallism."

Remember, TRUE power is not in knowing some and spilling it all...

It's in knowing EVERYTHING and explaining only some of it, and only when
asked.

:)

Happy holidays!

de Scott N7JI

Actually, it is I who knows everything, I just keep it well-hidden :)

--
Scott Rosenfeld ARS N7JI
541-684-9970 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Mon, 23 Dec 2002 10:39:16 -0800
From: "Dennis W. Farrell" <dfarrell@ridgecrest.ca.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [142980] Re: A tendency toward "knowitallism"
Message-ID: <001301c2aab2\$9e04a3c0\$efccfea9@mfpcc>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Those of you who think you know everything are _really_ annoying those of us who do.

- for the humor-challenged, please add (;^>)

-- W6DWF

----- Original Message -----

From: Scott Rosenfeld [N7JJI] <ham@w3eax.umd.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 10:22
Subject: A tendency toward "knowitallism"

Those of you who follow the Simpsons will remember that in Lisa's "permanant record," she is described as having a tendency toward "knowitallism."

Remember, TRUE power is not in knowing some and spilling it all...

It's in knowing EVERYTHING and explaining only some of it, and only when asked.

:)

Happy holidays!

de Scott N7JJI

Actually, it is I who knows everything, I just keep it well-hidden :)

--

Scott Rosenfeld ARS N7JJI
541-684-9970 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Mon, 23 Dec 2002 13:53:36 -0500
From: "Bob and Janet" <jbcraft@adelphia.net>
To: <myetsko@insydesw.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [142981] Re: where do i get Conductive Paint for RF shielding?
Message-ID: <002001c2aab4\$ab4c6160\$51d73218@home.msft>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

GC Electronics used to sell a product called "TUBE COAT". I have not worked on a monitor or TV in nearly 20 years, so I do not know if CG still makes the stuff.

I have used it in the long forgotten past to coat the inside of a TRaSh80 M1L2 to keep down noise.

Bob K8YS

Date: Mon, 23 Dec 2002 13:01:55 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@LeHigh.EDU>
Subject: [142982] Fox - Winter Fox Hunt Teams Results.
Message-ID: <Pine.LNX.4.33.0212231253500.22742-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #14 - W8RU -

Burbank Wrecking Crew - 47	Cheeseheads - 52
----------------------------	------------------

Michael - K6MMC	Jerry - N9AW
Todd - AG0T *	Jim - WA9TZE *
Don - KC2CK	Lon - W9XU
Woody - WD9F *	Rick - NK9G
Trev - KG6CYN *	Glenn - WE9K

NE-TX Tornados - 61	p-Shooters - 28
---------------------	-----------------

Chuck - W5USJ *	Chuck - K7Q0
Bill - K5JHP *	Gary - NQ7T *
Don - K5DW *	Jim - KC1FB *
Doc - W5TB *	Wayne - W5KDJ *
George - W5YR *	Tony - KB9YIG

Raiders of the Lost RF - 52

Dan - VE6EX *
Earl - VA6RF *
Fred - VE3FAL
Robert - VE6JAZ *
Bruce - VE5RC *

Swamp Rats - 57

Larry - N2WW *
ET - N1FN * Clean
Paul - K4FB * Sweep
Doc - K0EVZ *
Tom - N1TP *

K1 K9s - 39

Lloyd - K3ESE *
John - K8HJ
Ralph - KD1R
Joe - W2RBA
Alan - N3BJ *

Cajun Thunder - 45

Wayne - K5E0A
Jim - N5IB *
Vern - AA50 *
Wayne - N5YFC
Tom - AC5JH

Great Lakers - 37

Mark - K2Q0
Tom - KV2X
Al - K2ZN
Bill - K2TER
Jeff - VA3JFF

Underdogs - 54

Dan - N4R0A *
Dave - W0CH * Clean
Ron - KI0II * Sweep
Randy - K7TQ *
Art - KB7WW *

Aluminum Kings - 45

Bob - N4BP *
Jim - N0UR *
Al - K0FRP
Pat - K0PC *
Todd - N9NE *

Dust Devils - 41

George - KR5C *
Martin - N6LIF
Eric - NM5M
Dale - K5SR *
Lew - N5ZE *

Loco-motives - 35

Frank - K2PQ *
Jack - K5FSE *
Jason - N8XE
Mike - VA6MJT
Wayne - K9DI

..please send any changes and/or corrections directly to me...thank
you...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -

- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 23 Dec 2002 14:03:39 -0500
From: Pete Burbank <plburbank@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142983] Re: OT & List"Drift"
Message-ID: <5.0.2.1.0.20021223135802.00a21d60@Earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:53 PM 12/23/2002, Rod N0RC wrote:

>Folks,

>

>I noticed just the other day that the moon was full. Coincidentally, I

>noticed a wide range of topics posted to QRP-L, some were even QRP

>related! ;-)

SNIP

I to noticed the full moon so just sat back, read the mail and chuckled
about some of it.

Hopefully my hair, nails, and fangs will return to normal soon. :-)

Happy Holidays to all

Pete NV4V

Date: Mon, 23 Dec 2002 14:48:23 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [142984] HEY! What's that burnt odor coming from my favorite DSW ? (long)
Message-ID: <BAY1-F159hxxqzzWRKiF0001b856@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Dag!

THOUGHT I had the rig coupled to the end-fed fullwave...
Coupla nights ago, I threw the coax out and closed the window down tight cuz the West Wind was causing a chill down here in Studio B.

Was listening to the Sunrise Net on 7148 KHz this morning on the DSW-40 using only an open-ended section of RG-8X, lying on the floor, as an antenna.

So, about an hour ago, I decided to tune the rig down to 3560 and see what might be going on down there...
That little DSW-40 is tough...it survived a 'QRL?'.
But, about 800 milliseconds after a 'Tune' keydown commenced, the speaker in the ThinkPad began issuing a LOUD buzzing sound...
Took me about two seconds to react and to reach up and shut off the R/S 3-amp(!) supply which powers my DSW-40.
BTW, the WM-2 had indicated about a watt-and-half of reflected power for that same 800 mS duration.

So, I pulled all the jacks from the rear apron, removed the screws from the rig's lid and popped it off.

PEEEEEEEWWWWW!

Well, I thought, there goes another final at Q7 :(
When I installed the current final, I left it standing about 3/8" above the board. This made possible a little troubleshooting, without having to remove the board from the enclosure.

Sure enough, the Fluke indicated 0V drop, emitter-to-collector.
Clipped the emitter lead, about half-way between board and device and...WAIT...still have dead short from E-to-C pads on the board!
Clipped a lead of D9, the 33V protective zener, and the short went away!
Carefully soldered the emitter lead segments together, did a quick check of voltage drops E-B, B-C and E-C at Q7, plugged everything back in, re-tuned the DDS to 80 meters and...WHEW! It works again :)...connected to the correct antenna...

Next time I pull this trick, no doubt the final will fry if I don't replace D9. D9 K-A, which parallels Q7 C-E, had done its job and protected the final against high VSWR but lost its life in the process.

There are, of course, 'other' ways to prevent this damage from recurring but "Gee, Wally", it's such fun seeing the DSW's innards again :)

Hmmm...the resonant freq of my antenna system seems to have shifted upwards by about 10 KHz...missing D9 capacitance?...maybe it's just the wind...

Gotta go shopping for Martha's Christmas gifts now.

Hey, at least I didn't wait 'til Christmas Eve, like I did last year!

73.

Bill, N4QA

<http://www.qsl.net/n4qa/>

Protect your PC - get McAfee.com VirusScan Online
<http://clinic.mcafee.com/clinic/ibuy/campaign.asp?cid=3963>

Date: Mon, 23 Dec 2002 15:20:49 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [142985] Re: OT & List"Drift"
Message-ID: <003901c2aac0\$ca37ea20\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

All this off-topic stuff raises an interesting question in my mind relative to the list what's the right balance?

If I could wave my magic wand and fix it, I'm not sure that I actually know what "fixed" would look like.

Yes, there are a lot of computer related postings, and I personally have a hard time not giving long-winded replies. But the fact of the matter is, most of those posting computer related (and other) questions on this list would be even less welcome on lists related to those subjects.

Sure there are dozens of Windows 9x, Windows XP, Weird Wonderful Frammis Whatsit for Windows groups. But each of those groups has a membership that have common interests, and a common understanding, much like this group. Most members of this list would feel pretty out of place in those groups.

While we collect here because of our interest in QRP, and each of us, I think, would like to see more QRP related topics, we keep coming back after all these various storms of unrelated topics and various flame wars because we feel a fellowship with the rest of the group.

Many members of this group are relatively illiterate when it comes to computers, but feel comfortable asking questions here where the folks are regular people, fellow QRPers, just like themselves. It's a "safe" environment to ask these questions.

Personally, I'd rather see the balance tip a little more toward homebrewing, but that's me. Others I am sure would rather see more discussion of

antennas, or of paddles, or of the latest logging software.

Recently it does seem like computer questions have dominated the list. But when a fellow QRPer has a question, should I not help him? After all, he's a fellow QRPer. And lets face it, just like computer logging, solid state rigs, electronic keyers, and continuous wave, it's becoming a part of the hobby.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Mon, 23 Dec 2002 15:32:26 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Cc: "Chas Greene W1CG" <W1CG@QSL.net>
Subject: [142986] Re: W1CG Balun - some pictures...
Message-ID: <001901c2aac3\$68efdd10\$92ca9cce@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

What a nice documentation effort for this kit construction Jim! I'd love to put the pics on the Low Power Balun kit web page ... would that be alright with you?

Thanks for sharing with us.

73, George N2APB
n2apb@amsat.org

Date: Mon, 23 Dec 2002 14:46:16 -0600
From: Karl Kanalz <kkanalz@gcecisp.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [142987] RE:Prepositions
Message-ID: <01C2AA92.13692440@KKKANALZ>

You wrote:

From: Bill, N4QA [SMTP:n4qa@hotmail.com]
Sent: Monday, December 23, 2002 11:03 AM

To: Low Power Amateur Radio Discussion
Subject: Radios & computers...don't mean to fan any flames, but...

<snip>

I can IMAGINE, even PRACTICE the one without the other, though I don't always like to. I also occasionally use too many I's, commas, and end a sentence with a preposition but I don't always know what for.<snip>

Bill, there are "officially" 44 prepositions in the English language, but like my Dad used to say, "If prepositions are not for ending sentences with, then what are prepositions for?"

Date: Mon, 23 Dec 2002 14:41:21 -0600
From: Karl Kanalz <kkanalz@gcecispc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [142988] RE: Class A, B and C "References"
Message-ID: <01C2AA92.1265BE00@KKANALZ>

Dear Karl L.,
I would, for one, be interested in having a list of university (or other) references that declare Class A, B and C to cover ALL possible cases.

Could it be that your references were written in say, 1925, before other amplifier classes were developed?

Framistan (You can call me "Fram") K - W8TIF
McKinney, Texas

-----Original Message-----
From: Karl F. Larsen [SMTP:k5di@zianet.com]
Sent: Monday, December 23, 2002 10:54 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Class E

Hi Chris, the problem is that IF you understand what Class A,B, and C are you realize that these three classes cover ALL POSSIBLE cases. If You doubt this I can give you several referances available in any good University Library.

On Mon, 23 Dec 2002, Chris Trask wrote:

> On Monday, December 23, 2002 5:56 AM Karl F. Larsen erroneously speculated:

>

> >

> > I think they get Class E from "class efficient"= Class E.

> >

>

> No, Karl. It's called Class E because E comes after D in the alphabet,

> followed by F, then G, then H for the next three classes of switching amplifiers.

>

> Didn't they use the alphabet in the Army, or did they tell you it didn't

> exist?

>

> Chris

>

> /-----\ High Performance Mixers and
> / What's all this \ Amplifiers for RF Communications
> / extinct stuff, anyhow? \

> \-----\ Chris Trask / N7ZWY
> _ | / Principal Engineer

> oo\ Sonoran Radio Research

> (__) \ P.O. Box 25240
> \ \ / Tempe, Arizona 85285-5240

> \ \ / IEEE Member #40274515

> . () \ Email: chistrask@earthlink.net

> ' - |) __ | : . \ <http://www.home.earthlink.net/~chistrask>

> | | | | \ '.
> c__ ; c__ ; ' - . . ' > . __

>

Graphics by Loek Frederiks

>

>

>

>

--

- Karl Larsen k5di Las Cruces, NM Az ScQRPions -

Date: Mon, 23 Dec 2002 12:45:27 -0800

From: "Bill Jones" <kd7s@psnw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [142989] Understanding CD-R and CD-RW
Message-ID: <000701c2aac4\$39b2db50\$9110010a@fresno>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Friends,

The recent discussion on the differences between CD-R and CD-RW drives prompted me to do a little research. I found a great web site that explained the differences between these drives, how they work and some of the possible limitations of CD-RWs. If you're interested visit the following web site:

<http://www.howstuffworks.com/cd-burner.htm>

=====
Bill Jones - <><
There is no "X" in Christmas
Sanger, California
=====

Date: Mon, 23 Dec 2002 13:48:07 -0700
From: "John McClain" <digi2@earthlink.net>
To: <n4qa@hotmail.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [142990] Re: HEY! What's that burnt odor coming from my favorite DSW ?
(long)
Message-ID: <001e01c2aac4\$99c2d630\$6601a8c0@laptop2>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

What a coincidence, I just finished building a SW-30+ and the only problem that I ran into was during the alignment of the transmitter. As soon as I got the WM-2 up to 1 watt, the power dropped to zero and the reverse polarity protection diode (1N4001) in the 12 volt supply lead went up in smoke. It turned out the 33 volt zener on the collector of the final amp was shorted in both directions. A new one cost me 70 cents and I had spare 1N4001's.

John

K7SVV

k7svv@arrl.net

K1 #1378, K2 #2569, SST 20, Rock Mite 20, Rock Mite 40, Nor'Easter

----- Original Message -----

From: "Bill, N4QA" <n4qa@hotmail.com>

> Clipped a lead of D9, the 33V protective zener, and the short went away!

> Carefully soldered the emitter lead segments together, did a quick check of

> voltage drops E-B, B-C and E-C at Q7, plugged everything back in, re-tuned

> the DDS to 80 meters and...WHEW! It works again :)...

Date: Mon, 23 Dec 2002 14:57:51 -0600

From: Karl Kanalz <kkanalz@gcecisp.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [142991] RE: Conductive Paint for RF shielding?

Message-ID: <01C2AA93.B0B28880@KKANALZ>

It is still used in the TV manufacturing industry (well, where there are CRT's, not plasma, displays) and it's called (and spelled) "Aquadag".

I believe that Emerson & Cummings makes conductive paint(s) of various kinds for EMI/RF shielding, but I believe you have to buy it directly from them.

A "Google Search" will locate their website and "catalog" of products and possibly some distributors.

'Way back "when", the Radio Shack TRS-80 ("Trash Eighty") computer was notorious for causing r.f.i. to shortwave (ham) receivers and all kinds of "cures" for it ranged from gluing aluminum foil to the top and bottom surfaces of the keyboard/computer housing to spraying the plastic housing with conductive metal paint. I didn't have that problem because my computer was a home-brewed (and wire-wrapped) 8080 with 4K of RAM and housed in a metal cabinet.

Framistan (You can call me "Fram") K - W8TIF
McKinney, Texas

-----Original Message-----

From: Mike Yetzko [SMTP:myetsko@insydesw.com]

Sent: Monday, December 23, 2002 11:40 AM

To: Low Power Amateur Radio Discussion

Subject: Re: where do i get Conductive Paint for RF shielding?

I used to use a paint called something like 'Aquadaq'. I probably butchered that pretty badly though. It used to be used for spraying in TV sets on the back of the tube, and I used to get it from TV repair 'houses'. I know, they are few and far between now...

Mike

> Hi guys,
>
> I have searched a little and found some sources, some are very expensive
> even for quite small quantities. And there are different degrees of
> conductivity. So, thought I'd ask here.
>
> Any advice?
>
> Thanks & 72
>
> Jerry Terres aa1of
> Franconia NH

Date: Mon, 23 Dec 2002 15:09:07 -0600
From: "George, W5YR" <w5yr@att.net>
To: <kkanalz@gcecispc.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [142992] RE:Prepositions
Message-ID: <015701c2aac7\$89ecb340\$0201a8c0@fairviewtx.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

And, as Winston Churchill replied when taken to task for the sin of ending a sentence with a preposition, "Madam, that is the sort of nonsense up with which I shall not put!"

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
In the 57th year and it just keeps getting better!
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #03235

----- Original Message -----

From: "Karl Kanalz" <kkanalz@gceecisp.com>

> Bill, there are "officially" 44 prepositions in the English
language, but like my
> Dad used to say, "If prepositions are not for ending sentences
with, then what
> are prepositions for?"
>

Date: Mon, 23 Dec 2002 15:06:06 -0600

From: KD5NWA <KD5NWA@cbayona.com>

To: qrp-l@lehigh.edu

Subject: [142993] Class E amplifiers.

Message-ID: <5.2.0.9.0.20021223142912.00a877c0@mail.arkansasusa.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

For those that are interested in class E RF amplifiers here are a few interesting links, I found also that this amplifier was invented by a ham, Nathan Sokal WA1HQC, also note that some of these articles although not stating that the author is a ham, they are amplifiers for the ham bands. These links include design notes so you can design your own amplifier, from what I have gleaned the amplifier would work well on an entire ham band such as 20 meters without any component changes, sounds like the ticket for a homemade high efficiency single band rig or even a multi band rig if you make the resonant circuit part of the low pass filter you need to switch with each band.

http://nemes.colorado.edu/microwave/papers/1995/MGWL_TM_95.pdf

<http://www.avtechpulse.com/papers/classe/>

http://www.ece.ucsb.edu/rad/gaas_sym_99.pdf

<http://www.alan.melia.btinternet.co.uk/classepa.htm>

<http://www.its.caltech.edu/~mmic/reshpubindex/papers/scott01.pdf> 40 meter
1.1 Kw amp.

<http://mywebpages.comcast.net/tonne/classe.html>

Cecil
KD5NWA

Date: Mon, 23 Dec 2002 13:13:25 -0800
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [142994] Source of Teflon Coated wire for builders
Message-ID: <5.1.1.6.0.20021223130415.00b2e730@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

I asked the group for information on a wire source and got an answer from someone with no name and no call, so I am unable to give credit for this where credit is due and for that I apologize.

I found that Mouser wanted around \$25 per 100' roll of solid #22 wire with solid colors. You could get that under \$24 by buying at least 5 rolls.

Some one sent me email pointing to

<http://www.apexjr.com/wire.html>

and this time I will bring up the browser to make sure I don't have a typo. :-)

Good news: A 100' foot hank of #22 solid wire is \$8 plus S&H.
Bad news: You have to email or call to find out if he has it in stock for the colors/size/etc. that you want.

If you like the stranded wire then you are in luck as he does have something like 30 colors including the dual color (usually white with a color stripe) wire coating.

The wire is evidently pulled from 1,000' spools and cable tied in rolls, so it does not come on a metal spool like we usually get it from Fry's Electronics and other stores.

I have spools of the PVC coated, but I like the teflon much better as it doesn't melt under most conditions and makes a cleaner looking connection. Because it has a lower coefficient of friction you'll find it much trickier to hold and strip.... :-)

FYI

Chuck Adams, K7Q0

Working on web pages and if you see them listed here then they are back.

Moving to Arizona? ---- Please bring your own water.

Date: Mon, 23 Dec 2002 13:15:30 -0800 (PST)
From: Lloyd Lachow <llachow@yahoo.com>
To: a low-energy group <qrp-l@lehigh.edu>
Subject: [142995] RE:Prepositions
Message-ID: <20021223211530.9063.qmail@web41006.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Some helpful rules for better writing:

1. Verbs HAS to agree with their subjects.
2. Prepositions are not words to end sentences with.
3. And don't start a sentence with a conjunction.
4. It is wrong to ever split an infinitive.
5. Avoid clichés like the plague. (They're old hat)
6. Comparisons are as bad as clichés.
7. Also, always avoid annoying alliteration.
8. Be more or less specific.
9. Parenthetical remarks (however relevant) are (usually) unnecessary.
10. Also too, never, ever use repetitive redundancies.
11. No sentence fragments.
12. Foreign words and phrases are not apropos.
13. Do not be redundant; do not use more words than necessary; it's highly superfluous.
14. One should NEVER generalize.
15. Don't use no double negatives.
16. One-word sentences? Eliminate.
17. Analogies in writing are like feathers on a snake.
18. The passive voice is to be ignored.

19. Never use a big word when a diminutive one would suffice.
20. Use words correctly, irregardless of how others use them.
21. Eliminate quotations. As Ralph Waldo Emerson said, "I hate quotations. Tell me what you know."
22. If you've heard it once, you've heard it a thousand times: Resist hyperbole; not one writer in a million can use it correctly.

=====

73, 72 es oo, Lloyd, K3ESE
K1 # 00379 - 20/40M Rock-Mites - Hunk o' Wahr
ARRL - ARS #1301 - FISTS #8774
FPqrp #476 - QRParci #11147
QRP-L #2415 - SOC #530
dit dididit dit

Do you Yahoo!?
Yahoo! Mail Plus - Powerful. Affordable. Sign up now.
<http://mailplus.yahoo.com>

Date: Mon, 23 Dec 2002 16:29:51 -0500
From: "KB0VCC" <kb0vcc@adelphia.net>
To: <qrp-l@Lehigh.EDU>
Subject: [142996] Fw: Neat QRP Tube Kit!
Message-ID: <000401c2aaca\$6f0e9ea0\$6401a8c0@dalenotebook>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Thought that some of you might like this:
>
> <http://www.glowbugkits.com/>
>
>It's a one tube transmitter KIT!!! Kinda neat...am thinking of getting
>one. Just FYI...

Thanks Trev. Looks like a decent platform to learn hollow-state basics on. Too bad it's a hybrid.

72/73,
Dale

Date: Mon, 23 Dec 2002 13:30:47 -0800
From: "Frank King" <fking@oregonvos.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [142997] Re: A tendency toward "knowitallism"
Message-ID: <001501c2aaca\$8f5938a0\$f328fea9@fking>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Amen, Scott!

Frank King
AA7XA

Date: Mon, 23 Dec 2002 15:15:07 -0600
From: Karl Kanalz <kkanalz@gcecispc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [142998] RE: Full Moon and Fangs
Message-ID: <01C2AA98.CFBB3A60@KKANALZ>

If, Pete, when the full moon wanes to something lesser, and your hair, nails and fangs DON'T go back to "normal", then pay a visit to a "Unisex" beauty salon for a manicure hairs (you do have more than one, don't you?) cut and then get on over to your orthodontist to take care of those fangs (even if they are an advantage at really good BBQ places!). [grin]

Framistan (You can call me "Fram") K - W8TIF
McKinney, Texas

-----Original Message-----
From: Pete Burbank [SMTP:plburbank@earthlink.net]
Sent: Monday, December 23, 2002 1:04 PM
To: Low Power Amateur Radio Discussion

Subject: Re: OT & List"Drift"

At 12:53 PM 12/23/2002, Rod N0RC wrote:

>Folks,

>

>I noticed just the other day that the moon was full. Coincidentally, I
>noticed a wide range of topics posted to QRP-L, some were even QRP
>related! ;-)

SNIP

I to noticed the full moon so just sat back, read the mail and chuckled
about some of it.

Hopefully my hair, nails, and fangs will return to normal soon. :-)

Happy Holidays to all

Pete NV4V

Date: Mon, 23 Dec 2002 16:39:27 EST

From: n5ib@juno.com

To: qrp-l@Lehigh.edu, lubear40@yahoo.com, n5ib@juno.com,
gordonwayn@aol.com, p.w.hoppe@att.net, wayjan@bellsouth.net,

Subject: [142999] RockMite Happy Dance

Message-ID: <20021223.153521.8023.0.n5ib@juno.com>

To: Baton Rouge RockMiter Building Gang

cc: QRP-L

re: first RockMite QSO

Just finished up the first QSO with my RockMite 20. Guess what ? -- with
another RockMite!

Tom, K4THL, in Florida gave me a 229, but we got the needed info
exchanged. He was a solid 439 to me. Using a 40 meter horizontal loop
that averages only about 10 ft high, fed with 450 line, a coax-on-toroid
1:1 balun, short coax into the shack, then tuned with an MFJ-971 using
the coaxial output. I'm getting not quite 300 mW from my stock RM.

Now to fire up QSLMaker and produce an appropriate First QSO card for Tom.

All you Baton Rouge RMers - get yours done and on the air - but do it
discreetly - this much fun is probably illegal in Louisiana :^))

72,
Jim N5IB

PS Baton Rouge RMers - be thinking about whether you want to gather again on the 29th. I'll be in touch the day after Christmas.

Sign Up for Juno Platinum Internet Access Today
Only \$9.95 per month!
Visit www.juno.com

Date: Mon, 23 Dec 2002 15:41:12 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143000] RE: Class A, B and C "References"
Message-ID: <5.2.0.9.0.20021223151139.00a744e0@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

While not agreeing with Karl life is not so black and white sometimes, the differences is the A, B, AB, C amplifiers are in the biasing level and the drive level, A properly operated high efficiency C amplifier operates as a switch and when you look a class E amplifier you notice that basically it's a class C amplifier with a specially tuned filter to improve efficiency, A class S amplifier though is an entirely different beast, not related to A-C amplifiers but when you look at it , the final stage is operating as a switch like a C amplifier the difference is in the input signal. At what point do you separate the amplifier circuit from it driver stages? The engineering community have decided to create new classes of amplifiers based on a different criteria than the ones use to classify the A-C amplifiers, so if we are going to be understood clearly by others we need to use the terminology accepted by the engineering community no matter what we personally think.

At 02:41 PM 12/23/2002, Karl Kanalz wrote:

>Dear Karl L.,
>I would, for one, be interested in having a list of university (or other)
>references that declare Class A, B and C to cover ALL possible cases.
>
>Could it be that your references were written in say, 1925, before other
>amplifier classes were developed?
>
>Framistan (You can call me "Fram") K - W8TIF
>McKinney, Texas

>
>-----Original Message-----
>From: Karl F. Larsen [SMTP:k5di@zianet.com]
>Sent: Monday, December 23, 2002 10:54 AM
>To: Low Power Amateur Radio Discussion
>Subject: Re: Class E
>
>
>Hi Chris, the problem is that IF you understand what Class A,B, and C
>are you realize that these three classes cover ALL POSSIBLE cases. If
>You doubt this I can give you several referances available in any good
>University Library.
>

Cecil
KD5NWA

Date: Mon, 23 Dec 2002 16:49:29 -0500
From: "James Reid" <jreid4@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [143001] RFI from PC's
Message-ID: <000701c2aacd\$2e2fd720\$d851f7a5@net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, I've got it. RFI that is. I've got a PC clone and I've tried ferrites on all the cables with no improvement. With an earlier computer (Apple II plus) I found that powering down the monitor helped with the RFI problem but then I couldn't see what was going on.

I made up a coax sniffer consisting of a BNC connector on one end and a small loop on the other. This led to the ferrite treatment on all cables.

The Computer tower has a metal wrap-around case but the front panel has a lot of plastic in it. Any suggestions or experiences would be appreciated.

Jim, KD3S

Date: Mon, 23 Dec 2002 15:49:52 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-1@LeHigh.EDU>
Subject: [143002] Fox - Winter Fox Hunt Teams Results.
Message-ID: <Pine.LNX.4.33.0212231542010.32392-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #15 - K3ESE -

Burbank Wrecking Crew - 49

Michael - K6MMC
Todd - AG0T *
Don - KC2CK
Woody - WD9F *
Trev - KG6CYN

Cheeseheads - 57

Jerry - N9AW *
Jim - WA9TZE * Clean
Lon - W9XU * Sweep
Rick - NK9G *
Glenn - WE9K *

NE-TX Tornados - 66

Chuck - W5USJ *
Bill - K5JHP * Clean
Don - K5DW * Sweep
Doc - W5TB *
George - W5YR *

p-Shooters - 31

Chuck - K7Q0
Gary - NQ7T
Jim - KC1FB
Wayne - W5KDJ
Tony - KB9YIG *

Raiders of the Lost RF - 56

Dan - VE6EX *
Earl - VA6RF *
Fred - VE3FAL
Robert - VE6JAZ
Bruce - VE5RC

Swamp Rats - 62

Larry - N2WW *
ET - N1FN * Clean
Paul - K4FB * Sweep
Doc - K0EVZ *
Tom - N1TP *

K1 K9s - 41

Lloyd - K3ESE *
John - K8HJ
Ralph - KD1R
Joe - W2RBA
Alan - N3BJ *

Cajun Thunder - 49

Wayne - K5E0A *
Jim - N5IB *
Vern - AA50 *
Wayne - N5YFC
Tom - AC5JH *

Great Lakers - 37

Mark - K2Q0
Tom - KV2X
Al - K2ZN
Bill - K2TER
Jeff - VA3JFF

Aluminum Kings - 50

Bob - N4BP *
Jim - N0UR * Clean
Al - K0FRP * Sweep
Pat - K0PC *
Todd - N9NE *

Loco-motives - 36

Frank - K2PQ
Jack - K5FSE *
Jason - N8XE
Mike - VA6MJT
Wayne - K9DI

Underdogs - 59

Dan - N4R0A *
Dave - W0CH * Clean
Ron - KI0II * Sweep
Randy - K7TQ *
Art - KB7WW *

Dust Devils - 44

George - KR5C *
Martin - N6LIF
Eric - NM5M
Dale - K5SR *
Lew - N5ZE *

..please send any changes and/or corrections directly to me...thank
you...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 23 Dec 2002 16:50:04 -0500
From: "Ken Simpson, W8EK" <W8EK@fdt.net>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [143003] MFJ CW keyer and paddle FS
Message-ID: <NGBBLMCL0LBPLBFNJPMKEOBCIAA.W8EK@fdt.net>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For Sale:

MFJ 422 B electronic keyer.

This is the keyer that uses the Curtis chip as the keyer, but includes sidetone, and has adjustments for volume, tone frequency, and weighting, as well as speed. Can be used in fully automatic mode, or semi-automatic like a bug. It will key either positive or negative voltages, and is powered by an internal 9 V battery, or external 5 to 9 volt supply. It is made to go on the back of a Bencher Paddle. \$ 60

MFJ-564 Deluxe Iambic Paddle.

This is the MFJ clone of the Bencher Paddle. This model is the all chrome model, and is in very nice shape. It will work with the MFJ 422 keyer above. It looks close to new. With paper work for \$ 45.

Both of the above for \$100.

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@fdt.net or W8EK@arrl.net
Voice Phone (352) 732-8400

Date: Mon, 23 Dec 2002 14:59:57 -0700
From: "Chris Trask" <chrisrask@earthlink.net>
To: <KD5NWA@cbayona.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [143004] Re: Class A, B and C "References"
Message-ID: <01ed01c2aace\$a2a36f80\$39b33b41@ctrask>
MIME-Version: 1.0

Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

>
> While not agreeing with Karl life is not so black and white
> sometimes, the differences is the A, B, AB, C amplifiers are in
> the biasing level and the drive level, A properly operated high
> efficiency C amplifier operates as a switch and when you look a
> class E amplifier you notice that basically it's a class C
> amplifier with a specially tuned filter to improve efficiency, A
> class S amplifier though is an entirely different beast, not
> related to A-C amplifiers but when you look at it , the final
> stage is operating as a switch like a C amplifier the difference
> is in the input signal. At what point do you separate the
> amplifier circuit from it driver stages?
>

No, there is a distinct difference between A, AB, B, C, and the classes of switching amplifiers. None of the earlier classes are driven into saturation as are the later switching amplifiers. All of the switching amplifiers are driven into saturation to drive the device saturation voltage as low as possible which reduces the thermal losses and keeps the efficiency high, and the differences between them has everything to do with the distinct different output networks or by virtue that some are 50% duty cycle (E and F) and others are pulse width modulated (D and S). None of the earlier amplifier classes are operated in that manner. They are all operated to conduct some portion of the input sine wave and produce an unsaturated output. For Class A, it's the full 360 degrees, Class B is 180 degrees, and Class C is less than 180 degrees. Class AB (and AB1, AB2 for tubes only) is greater than 180 degrees and is biased for both efficiency and linearity. Still not operated for a saturated output like the switching amplifiers.

Operating a Class C amplifier with a Class E or F output network will not improve the efficiency one bit.

Chris

/ What's all this \
/ extinct stuff, anyhow? /

_ |/
oo\
(--)\
 \ \ . ' .
 \ \ / \

High Performance Mixers and
Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240


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| | | | \ '.
c__; c__; '-..'>._

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IEEE Member #40274515

Email: chistrask@earthlink.net
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

Date: Mon, 23 Dec 2002 15:33:21 -0600
From: Ted Kell <tedkell@ev1.net>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [143005] On being Politically INcorrect.
Message-ID: <ZW0IE9UTIEYU0MD9QNQ061JF43A5YT2W.3e078121@default>
MIME-Version: 1.0
Content-Type: text/plain; charset="windows-1252"

I apologise for wasting the bandwidth for this post and of the time of the senior members of this group, but I really feel I should post at least once a year to maintain my membership here. Perhaps some of the more ignorant, but more knowlegable than I, will respond in some reasonable fashion.

After working on my LINUX system configuration, trying to integrate my program written in (take your choice) Pascal, Fortran, APL, C, or maybe COBOL that takes that obscure digital code know as CW and convert it into a human readable form, I have a question. NO, I have NOT read the F manual. As a sidenote, for those that think otherwise, F does NOT stand for full. Nor, for that matter, have I read the whole of the ARRL manual looking for an answer, of which it has many, but perhaps not the one I am interested in.

THERE, that should insult and aleinate most of you, If you are among that multitude, go away. Perhaps the remainder will consider my question and perhaps enlighten me.

I have three 12V 3.2 AH gellcells. Building three chargers would seem to be a bit of a pain. I got to thinking something I do infrequently and not well, that perhaps I could hook the three gellcells in parallel aNnd charge them all together. Would this ba a good or bad idea? How about useing them that way, creating a 9.6 AH battery?

I will look for some "nice" answers in the days to come.

This IS the holiday season, so it is appropriate to wish all the readers of this list a happy Christmas and a prosperous year to come, including many QRP DX contacts.

71

(That is 72 for the list members like myself that aren't quite with it.)

Ted

N3Ted

Extra-Lite

Date: Mon, 23 Dec 2002 17:02:59 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <tedkell@ev1.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143006] Re: On being Politically INcorrect.
Message-ID: <005b01c2aacf\$0fcc61c0\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If the cells were 'balanced' I think you could get away with it. But as cells age, they would be unbalanced at the maximum charge. I never really looking into it, but was told once that when cells are unbalanced and you connect them in parallel, there will be a discharge current due to the cells trying to come to a common point.

Mike

Date: Mon, 23 Dec 2002 17:06:07 -0500 (EST)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
To: qrp-l@lehigh.edu
Subject: [143007] Antenna book to trade
Message-ID: <200212232206.gBNM67024623@panix3.panix.com>

Hi all,

I have an extra copy of the RSGB publication -Backyard Antennas-, which the ARRL sells for \$32. I'd like to have a paper copy of the -ARRL Antenna Book, 19th Edition-.

Does anyone interested in a trade? I'll pay book rate postage both ways.

73, doug

Date: Mon, 23 Dec 2002 17:21:29 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: myetsko@insydesw.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143008] Re: On being Politically INcorrect.
Message-ID: <5.2.0.9.2.20021223172010.01fe5b18@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Yeah... none of the cells will be any better than the 'worst' cell... e.g. discharging themselves down to the lowest cell voltage/charge value.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Mon, 23 Dec 2002 17:25:42 -0500
From: Mike Czuhajewski <wa8mcq@comcast.net>
To: qrp-l@Lehigh.EDU

Cc: Mike Czuhajewski <wa8mcq@comcast.net>
Subject: [143009] Re: Wash. Post news article
Message-ID: <003e01c2aad2\$3ad9c6c0\$6401a8c0@gamb101.md.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

The URL to read that letter to the editor is:

<http://www.washingtonpost.com/wp-dyn/articles/A27373-2002Dec22.html>

Usual washingtonpost.com rules apply: the date in the URL is one day before the date on the print issue when it hits the streets, and the URL is only good for two weeks. After that, the data goes from "free" status to "submit payment to dig something out of the archives."

BTW, that Richard Hayman of Rockville, MD, who sent the letter is K3DML. I've known him for years, a really nice guy. He was even heavily involved with QRP a number of years back and had an item or two in my QRP Quarterly column, although he moved away from QRP some time ago.

73 and queue our pea DE WA8MCQ

Date: Mon, 23 Dec 2002 20:38:46 -0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: "Low Power" <qrp-l@Lehigh.EDU>
Subject: [143010] Class E amp simulation
Message-ID: <DAV59k6kvXsn2Yf0scL000003b4d@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've just simulated a simple Class E amplifier using SPICE. Apart from the resonant circuit it wasn't properly designed, I just fiddled with the component values until I got something like the correct waveform. I used a BS170 MOSFET, as I've got a few lying around.

73, Leon

--

Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Mon, 23 Dec 2002 17:42:42 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: tedkell@ev1.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143011] Re: On being Politically INcorrect.
Message-ID: <5.2.0.9.2.20021223172329.020c1ea0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

What I do... that you're really not supposed to do0but it has worked fine for years and years-is charge mine in series. I use a current-limited, straight from the AC line (yeah I know: no transformer at all) rectified to DC but that's all, 'charger. It uses AC-rated mylar capacitors to limit the current ON THE AC-side to something like 50mA or 120mA (switched) regardless of the number of cells in series. The battery terminals are seriously higher than ground, but the battery is limited to receiving only those coulombs available to it at the described current rate.

- 1) There are no little kids (if you don't count me) around here for now, to get onto the battery terminals which are at a bunch of volts relative to ground;
- 2) This is surely NOT the recommended way to charge lead-acid/gel cell/ni-cad batteries;
- 3) But it works so well, I never built another. I have GOOD 12V 4AH gel-cells over 10 years old, that have been charged either a) when they had been used and hence actively (or perhaps more correctly: INactively) NEEDED charging; or b) whenever I noticed them and figured they'd probably self-discharged by 'now'.
- 4) This has worked fine for everything from 2AH batteries to car batteries, and the car-battery-sized gel cell I got at this year's "Atlanta" Hamfest.

Of course... you cannot be in a REAL HURRY. I SUSPECT that it's the relatively low current rate... but I don't really CARE if it's somehow theoretically incorrect... it has worked fine for years; has not seemed to either damage batteries, nor shorten their effective life-as far as you can tell when you have several such batteries; and they just keep on truckin'.

Besides Ted, I figured an admission of such terribly-bad battery charge management would take some of that heat off that you were worried about.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail

> The December edition of the Adventure Radio Society's monthly web
> magazine, The ARS Sojourner, is live, in color and hot off the press
> at:

Date: Mon, 23 Dec 2002 22:44:17 -0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: <KD5NWA@cbayona.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143013] Re: Class E amplifiers.
Message-ID: <DAV64yT308Ab4dthwo40000ce30@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "KD5NWA" <KD5NWA@cbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 9:06 PM
Subject: Class E amplifiers.

> For those that are interested in class E RF amplifiers here are a few
> interesting links, I found also that this amplifier was invented by a ham,
> Nathan Sokal WA1HQC, also note that some of these articles although not
> stating that the author is a ham, they are amplifiers for the ham bands.
> These links include design notes so you can design your own amplifier,
from
> what I have gleaned the amplifier would work well on an entire ham band
> such as 20 meters without any component changes, sounds like the ticket
for
> a homemade high efficiency single band rig or even a multi band rig if you
> make the resonant circuit part of the low pass filter you need to switch
> with each band.
>
> <http://www.avtechpulse.com/papers/classe/>

I found this for myself, earlier today, and tried the resultant design in a
SPICE simulation. It seemed to work OK, and I got the expected power output.

73, Leon

--

Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Mon, 23 Dec 2002 17:46:25 -0500
From: "Russ Hines" <wb8zcc@one.net>
To: <KD5NWA@cbayona.com>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [143014] Re: Class A, B and C "References"
Message-ID: <00a201c2aad5\$1f9e01c0\$4307c00a@wb8zcc1>

Sorry, a properly operated Class C is not a switch, it's a Class C amplifier.

Read and learn from Chris Trask's replies. He is, in fact, an expert.

73,
Russ Hines
WB8ZCC

----- Original Message -----

From: "KD5NWA" <KD5NWA@cbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 4:41 PM
Subject: RE: Class A, B and C "References"

> While not agreeing with Karl life is not so black and white sometimes, the
> differences is the A, B, AB, C amplifiers are in the biasing level and the
> drive level, A properly operated high efficiency C amplifier operates as a
> switch and when you look a class E amplifier you notice that basically
it's
> a class C amplifier with a specially tuned filter to improve efficiency, A
> class S amplifier though is an entirely different beast, not related to
A-C
> amplifiers but when you look at it , the final stage is operating as a
> switch like a C amplifier the difference is in the input signal. At what
> point do you separate the amplifier circuit from it driver stages? The
> engineering community have decided to create new classes of amplifiers
> based on a different criteria than the ones use to classify the A-C
> amplifiers, so if we are going to be understood clearly by others we need
> to use the terminology accepted by the engineering community no matter
what
> we personally think.
>
> At 02:41 PM 12/23/2002, Karl Kanalz wrote:
> >Dear Karl L.,
> >I would, for one, be interested in having a list of university (or other)
> >references that declare Class A, B and C to cover ALL possible cases.
> >
> >Could it be that your references were written in say, 1925, before other
> >amplifier classes were developed?
> >
> >Framistan (You can call me "Fram") K - W8TIF
> >McKinney, Texas

> >
> >-----Original Message-----
> >From: Karl F. Larsen [SMTP:k5di@zianet.com]
> >Sent: Monday, December 23, 2002 10:54 AM
> >To: Low Power Amateur Radio Discussion
> >Subject: Re: Class E
> >
> >
> >Hi Chris, the problem is that IF you understand what Class A,B, and C
> >are you realize that these three classes cover ALL POSSIBLE cases. If
> >You doubt this I can give you several referances available in any good
> >University Library.
> >
>
> Cecil
> KD5NWA
>

Date: Mon, 23 Dec 2002 17:15:23 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: "Chris Trask" <chistrask@earthlink.net>, qrp-1@lehigh.edu
Subject: [143015] Re: Class A, B and C "References"
Message-ID: <5.2.0.9.0.20021223170126.00a7bfd0@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

My point was about class C amplifiers only, such as used in the output stage of a CW radio, in that case overdriving and distortion caused is not an issue because they are cleaned up by the low pass filter and impedance matching network used on the output. Many of the popular QRP rigs only have about 50% efficiency, this due to improper design having insufficient drive to saturate the output transistor in the false assumption that saving power in the driver will cut down power consumption, it will in the driver, but the waste in the final amplifier will consume way more that you saved in the driver.

Your patent on a linear high efficiency amplifier sounds interesting, have anyone licensed the method from you?

At 04:58 PM 12/23/2002, Chris Trask wrote:

> >
> > Class C does not place a limit on how hard you drive it or bias it,
> > or whether you saturate the device or not, just because many
> > designers do not drive the amplifier to saturation does not mean

>
>----- Original Message -----
>From: "KD5NWA" <KD5NWA@cbayona.com>
>To: "Chris Trask" <chistrask@earthlink.net>
>Sent: Monday, December 23, 2002 3:29 PM
>Subject: Re: Class A, B and C "References"

>
>
> >
> > At 03:59 PM 12/23/2002, you wrote:
> > >
> > > While not agreeing with Karl life is not so black and white
> > > sometimes, the differences is the A, B, AB, C amplifiers are in
> > > the biasing level and the drive level, A properly operated high
> > > efficiency C amplifier operates as a switch and when you look a
> > > class E amplifier you notice that basically it's a class C
> > > amplifier with a specially tuned filter to improve efficiency, A
> > > class S amplifier though is an entirely different beast, not
> > > related to A-C amplifiers but when you look at it , the final
> > > stage is operating as a switch like a C amplifier the difference
> > > is in the input signal. At what point do you separate the
> > > amplifier circuit from it driver stages?
> > >
> > >
> > > No, there is a distinct difference between A, AB, B, C, and the
> > > classes
> > > of switching amplifiers. None of the earlier classes are driven into
> > > saturation as are the later switching amplifiers. All of the switching
> > > amplifiers are driven into saturation to drive the device saturation
> > > voltage
> > > as low as possible which reduces the thermal losses and keeps the
> > > efficiency
> > > high, and the differences between them has everything to do with the
> > > distinct different output networks or by virtue that some are 50% duty
> > > cycle
> > > (E and F) and others are pulse width modulated (D and S). None of the
> > > earlier amplifier classes are operated in that manner. They are all
> > > operated to conduct some portion of the input sine wave and produce an
> > > unsaturated output. For Class A, it's the full 360 degrees, Class B is
> > > 180
> > > degrees, and Class C is less than 180 degrees. Class AB (and AB1, AB2
> > > for
> > > tubes only) is greater than 180 degrees and is biased for both efficiency
> > > and linearity. Still not operated for a saturated output like the
> > > switching
> > > amplifiers.
> > >
> > > Operating a Class C amplifier with a Class E or F output network

gain of 2x with an emitter follower thereafter. How would this be for stability?

Anyone have pointers to relevant designs out there?

73 de ian, k3imw/6

Date: Mon, 23 Dec 2002 16:42:19 -0700
From: "John McClain" <digi2@earthlink.net>
To: <kkanalz@gcecispc.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143017] Re: Conductive Paint for RF shielding?
Message-ID: <00ac01c2aadcfef3e4dc0\$6601a8c0@laptop2>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I'll bet that if I looked real close, I could still find some of that paint that I used on my TRS-80 under my nails. We must be from the same era. I went to extremes to eliminate the "Trash Eighty's" noise and never was completely successful. Boy!, I love nostalgia.

John
K7SVV
k7svv@arrl.net
K1 #1378, K2 #2569, SST 20, Rock Mite 20, Rock Mite 40, Nor'Easter

>
> 'Way back "when", the Radio Shack TRS-80 ("Trash Eighty") computer was
> notorious for causing r.f.i. to shortwave (ham) receivers and all kinds of
> "cures" for it ranged from gluing aluminum foil to the top and bottom
> surfaces of the keyboard/computer housing to spraying the plastic housing
> with conductive metal paint. I didn't have that problem because my
> computer was a home-brewed (and wire-wrapped) 8080 with 4K of RAM and
> housed in a metal cabinet.
>

Date: Mon, 23 Dec 2002 18:25:23 -0500
From: Rick McKee <kc8aon@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [143018] Re: Prepositions
Message-ID: <20021223.184148.8838.1.kc8aon@juno.com>

In other words, speak any way you want and just call it regional dialect
!

Now, any of ya'll gots any new ideas like antenners, or uh homebrew (not
beer) projects theys can tellus about ?

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio
SW 40+, HW-8, Homebrew 6V6 tube TX & Surplus GRC 109 RX
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Date: Mon, 23 Dec 2002 16:44:41 -0700
From: "John McClain" <digi2@earthlink.net>
To: <kkanalz@gcecispc.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [143019] Re: Full Moon and Fangs
Message-ID: <00b901c2aadd\$446d66f0\$6601a8c0@laptop2>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

You know, if you guys would empty that moon more often, we wouldn't
have these problems.

John
K7SVV
k7svv@arrl.net
K1 #1378, K2 #2569, SST 20, Rock Mite 20, Rock Mite 40, Nor'Easter

----- Original Message -----

From: "Karl Kanalz" <kkanalz@gcecispc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, December 23, 2002 2:15 PM
Subject: RE: Full Moon and Fangs

> If, Pete, when the full moon wanes to something lesser, and your
hair,
> nails and fangs DON'T go back to "normal", then pay a visit to a
"Unisex"
> beauty salon for a manicure hairs (you do have more than one, don't
you?)
> cut and then get on over to your orthodontist to take care of those
fangs
> (even if they are an advantage at really good BBQ places!).
[grin]

Date: Mon, 23 Dec 2002 15:48:42 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [143020] Re: On being Politically INcorrect.
Message-ID: <MABBJOEABOILMKCJCLFCMECPDOAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ted

If you have three more or less equal batteries that you want to charge in
parallel,
I would use isolating diodes.

Tie the anodes together, and connect one cathode to each battery + terminal.
Connect
the - terminals together and run to the - charger terminal.
Run a lead from the combined anodes of the diodes to the + charger terminal.
I like to insert a 10 ohm resistor between the charger and the combined
anodes, with
enough wattage to dissipate the heat generated. This way, if you don't have
a
milliammeter to monitor the charging current, you can put your voltmeter
across the
10 ohm resistor and calculate the current.

If, instead of the one 10 ohm resistor, you put one 10 ohm resistor between the + terminal of each battery and the cathode of its diode, you can measure the charging current of each battery separately.

With a variable bench power supply, you can adjust the charging voltage to give the correct charging current to the batteries.

73, Bob N6WG

Date: Mon, 23 Dec 2002 16:52:23 -0700
From: "Chris Trask" <chrisrask@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [143021] Re: Class A, B and C "References"
Message-ID: <023501c2aade\$57d47c00\$39b33b41@ctrask>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

On Monday, December 23, 2002 4:15 PM, KD5NWA wrote:

>
> My point was about class C amplifiers only, such as used in the
> output stage of a CW radio, in that case overdriving and distortion
> caused is not an issue because they are cleaned up by the low pass
> filter and impedance matching network used on the output. Many of
> the popular QRP rigs only have about 50% efficiency, this due to
> improper design having insufficient drive to saturate the output
> transistor in the false assumption that saving power in the driver
> will cut down power consumption, it will in the driver, but the
> waste in the final amplifier will consume way more that you saved
> in the driver.
>

The point is well taken. However, in linear amplifiers we do not have the luxury of filtering out intermodulation distortion products, so we have to operate in a 10dB or so back-off condition or use exotic methods such as feedforward or EER. Augmentation is an entirely new technique that has a lot of promise since it is very simple and wideband.

>
> Your patent on a linear high efficiency amplifier sounds interesting,

```
> have anyone licensed the method from you?
>
```

Not yet, although there has been some interest. Have to keep publishing to get visibility. I was able to get ver high efficiency at one point when I inadvertently overdrove a prototype amplifier and watched as the output signal took on the classic Class E waveform. Got right up to 98% peak efficiency with that one, but it was difficult to reproduce. Having a wideband 90-95% efficient linear amplifier is good enough without pushing it.

Chris

```

      .-----
      /      What's all this      \
      / extinct stuff, anyhow? /
      \-----'
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High Performance Mixers and Amplifiers for RF Communications

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